PRINTUSAGE Pro

Professional Print Accounting & Management Software

Installation Manual

Version 2.1

AMAX INFORMATION TECHNOLOGIES

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PrintUsage Print Monitoring System Introduction

Running Environment

Hardware Requirement

Intel Pentium III CPU or above, 20GB of free hard drive space, minimum of 128MB system memory (512MB is recommended).

Software Requirement

- Supported Operating System: Windows 2000/XP/2003
- Supported Database: MS Access, MS SQL Server 7.0/2000, MySQL 3.23 or newer. PrintUsage 2.1 also support Oracle Database 8i and newer.

Attention

- Starting from PrintUsage 2.0, Windows NT is no longer supported as the print server.
- Monitoring service and web management service require Microsoft database access component MDAC 2.6 or above. Systems administrators are recommended to install the Latest MDAC database component to obtain the best performance.
- MyODBC is required when MySQL is used. MyODBC, 3.51 and MySQL Database 3.23 / 4.01 have been tested to be compatible with PrintUsage 2.x.
- Internet Explorer 5.0 or above is required for PrintUsage Web management. Internet Explorer 6.0 or newer is recommended. Other browsers are not supported. Note: PrintUsage 2.0 and earlier require Internet Explorer 6.0 to be installed on the server.

Main Features

Print job recording (Enterprise Version only)

Contents of printing jobs are saved in TIFF format. Administrator can turn on or turn off image capturing and set the capture image resolution for each printer. Free TIFF image viewers are available for download.

Reprint Capability (Enterprise Version only)

Contents of print jobs saved on the server can be reprinted by the administrator via the web management interface.

Selective User Monitoring (Enterprise Version only)

The administrator can select which users are monitored by PrintUsage..

WEB Interface Management

- PrintUsage management functions and reports are accessed through the WEB interface. Administrator can manage print resources at any workstation without the need of additional management software.
- The software is installed on the print server and does not require changes on user workstations or the existing printing configuration.

Centralized Management and Authentication Charging

- Multiple printers can be added to PrintUsage to achieve centralized management and cost accounting, thus make print resources management and cost control an easy task.
- Flexible monitoring modes allow distributed monitoring by geographical decentralization and logical centralization.
- Multiple administrators can share related PrintUsage administrator tasks.
- Multi-roles enable different administrators with different management role to have associated privileges.

Detailed Web Reporting

- Administrators can view report from any workstation via a web browser.
- More than 20 graphical reports are included for print job and print cost analysis.
- User-defined report functions provide maximum flexibility.
- Reports can be exported to Microsoft Excel Spreadsheet format.

Flexible Charge Logging Mode

- Cost accounting can be managed by user name or by computer name. Both Domain and peer-to-peer networks are supported.
- User accounts can be imported from multiple domains.
- Print cost per page can be adjusted to reflect on different paper type and color prints.
- User printing quota can be set in various time periods such as per year, quarter, month, week, day, fixed time period or no limit.

Simple Structure, Flexible Operation & Easy To Scale

- There are three modules including the manager site, central database and monitor service, which can be installed on a single machine or multiple machines to satisfy printing control needs. (Access database is not suitable for large user base).

Support of Multiple Databases To Suite Different Environments

- Support for Microsoft Access, Microsoft SQL Server 7.0/2000, MySQL and Oracle database. User accounts can be exported from and imported to the database.

Printer Compatibility

- Simple monitoring: All printers used on Windows 2000/XP/2003 including multi-function machine or graph plotter are compatible.

- Known problems and restriction:
  1. When Epson Stylus series printers are used, there is task pause problem and the user intervention is need to continue.
  2. To use printers in not running PCL5c, PCL5e, PCL6 drivers or using Epson and PostScript language under Windows 9x or with Microsoft Word, the page number and copy number are not always correct. Because of the difference in paper types, color, paper properties and printer drivers, we cannot assure all printers are 100% compatible.

- Job recording and reprinting: Supports printer using drivers in PCL and PostScript languages. HP, Lexmark, Xerox, Samsung, Sharp, Ricoh laser printers are supported. But HP LaserJet 1000 and 1010 series are exception, and cannot work with content saving. If your printer is not included in the brands mentioned above, or the printer is connected through the USB interface, it is possible the content saving function will not work correctly. Since it is not possible for us to test all printers of brand and model for compatibility, we recommend you to install the trial version of PrintUsage to verify your printer is compatible. If the content captured is not correct or you receive a "saving failure" error, then your printer is not supported by PrintUsage. If your printer is not mentioned in the compatible brand and models listed above and the print capture function is not working correctly, then please contact us. We will help you to resolve the problem ASAP.

PrintUsage Object Properties Configuration

PrintUsage has four components including user, user group, printer and server.

User group is the father object of user and server is printer's. One user only belongs to certain group and one printer only belongs to one server.
Four basic objects can configure self print monitoring properties and the relation among the objects is similar to the privilege of Windows NTFS.
User can inherit the properties configuration of user group and also cover group properties configuration by individual properties configuration.

The configuration of printer is prior to user's.

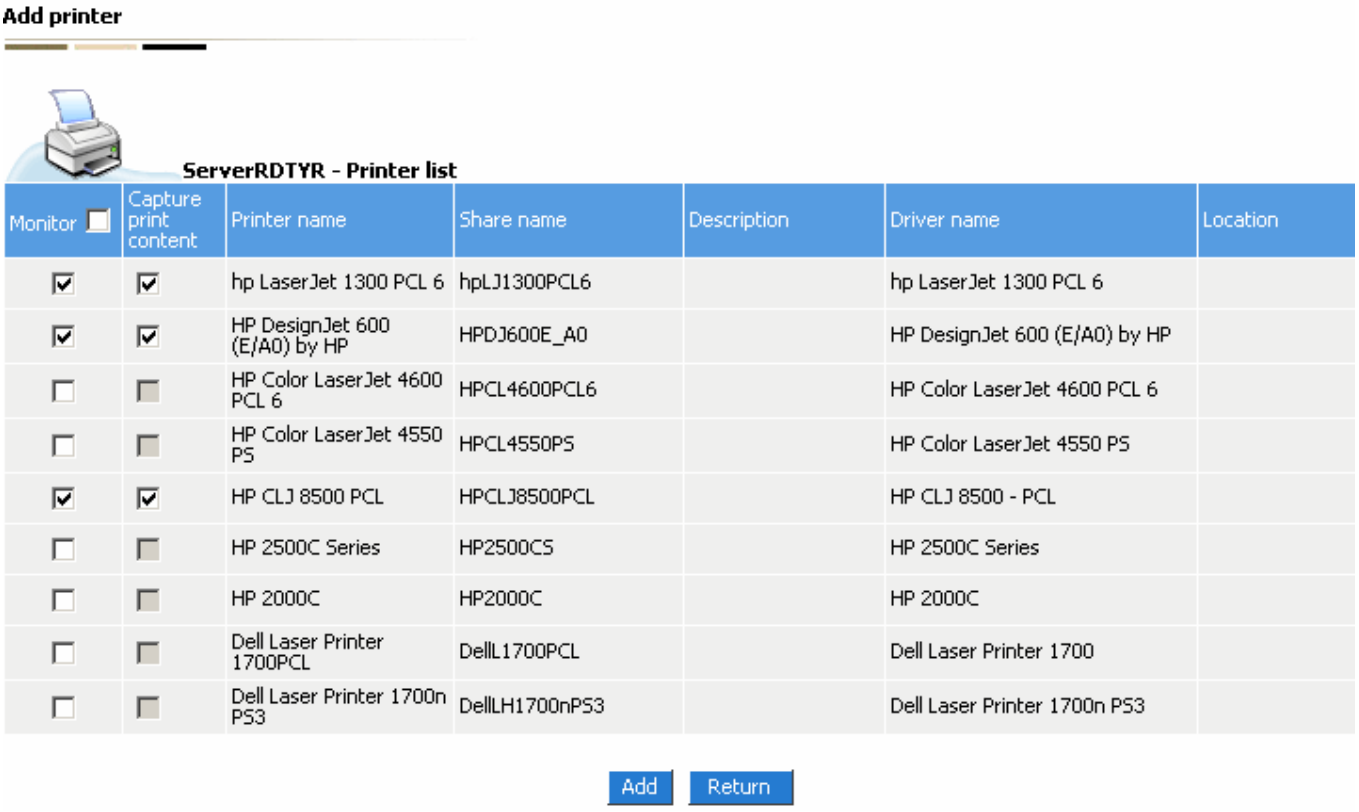
The print process can be simply described as user printing a document to printer.

Add Printer

Two ways to add printers

- [Total printer]->[Add server]->[Add printer], add new printers from selected server
- [Server properties]->[Add printer], add non-monitored printers of server or new added printers

Note: necessary condition of adding printer: object server has installed print monitoring service and configured "dominated server" as server of manager site. HTTP service of object server should be in running. (Check HTTP service status by tray icon->[System configuration]->[Advanced])



Select the server to add printers:

If to monitor certain printer, only select the monitored option box ☑ before the printer; if not, please unselect.

V2.1 or later version, there are four choice to save print content, including image format only, image + reprint document save, reprint document save only and not save. It will be in effect after changing the saving mode. **Enterprise Version Only.**

The difference among four saving modes:

1. Image format only: when choosing this function, user's print document will be saved as image and viewed in print log. Click to view the print content by image.

2. Image + reprint document save: when choosing this function, **the print content will be saved as reprint document while failed to save as imge**. Click to download or re-open reprint document or image; click to send reprint command to printer. For instance, user A ever printed document D on shared printer P connected with print monitoring server S. After clicking , the document D will be sent to shared printer P connected with print server S to print.

3. Reprint document only: it is similar to "image + reprint document save" mode, but only to create reprint document without image.

4. Not save: user's print content will not be saved but there will record in print log.

If the printer number exceeds the license number, the system will add the printers by order till there is no license. If printer number do not exceed license number, it will return to server printer list. After printer adding, default configuration will inherit all configuration of server, except that user made some setting for specific printer.

If there needs no any change, please click [Back] button.

List All Printers Information

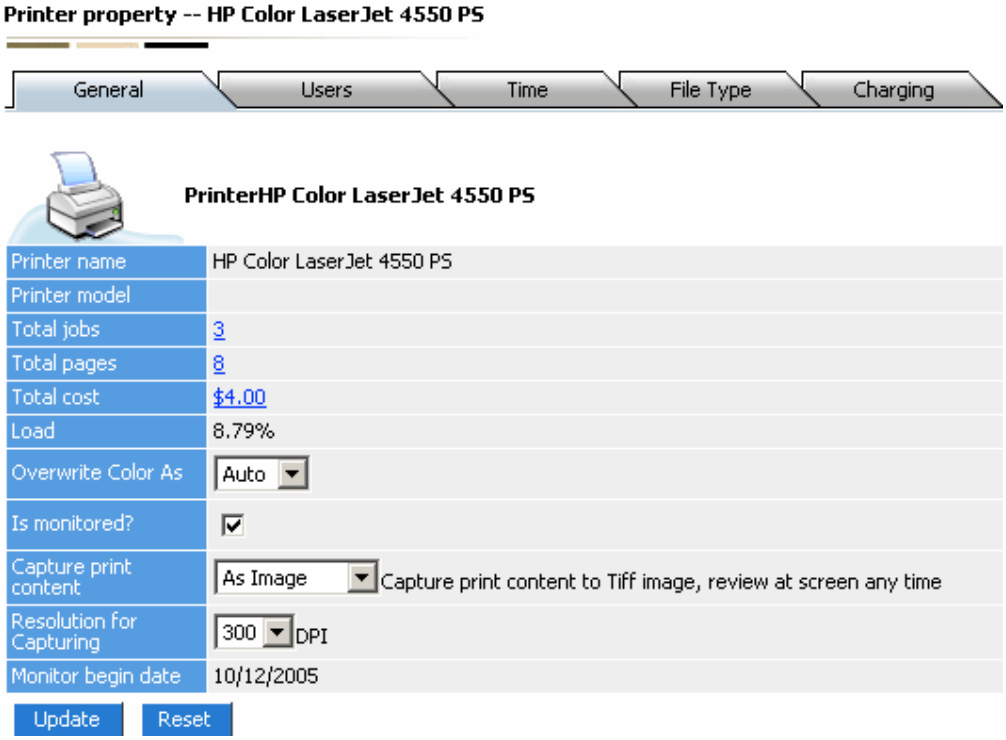
Delete	Monitor	Capture print content	Printer name	Server name	Total jobs	Total pages	Total cost
☐	☑	As Image	HP 2000C	RDTYR	2	4	$0.40
☐	☑	Raw Only	HP 2500C Series	RDTYR	1	1	$0.10
☐	☑	As Image	HP CLJ 8500 PCL	RDTYR	4	40	$20.00
☐	☑	As Image	HP Color LaserJet 4550 PS	RDTYR	3	8	$4.00
☐	☑	As Image	HP Color LaserJet 4600 PCL 6	RDTYR	2	16	$8.00
☐	☑	As Image	HP DesignJet 600 (E/A0) by HP	RDTYR	3	10	$1.00
☐	☑	As Image	hp LaserJet 1150 PCL 5e	RDTYR	2	12	$1.20

Add Delete Reset Refresh

All printers included information:

- Click [Add] to enter Add Printer page to add printer into monitored queue.
- Click [Remove] to remove selected monitored printer from print monitoring list. If user wants to remove one printer, please select that printer and then click [Remove] button. The printer will be removed. If user wants to remove all printers in list, please select the option box after [Remove] on the top and then click [Remove] button. All printers will be removed.
- Click [Reset] to clear all selected printers.
- Click [Refresh] to reload the present page.
- Monitored: if the option box before printer is not selected, the printer will not be monitored; otherwise, select monitored option box before printer to monitor printer, and then click [Refresh] button at the bottom.
- Save print content: user can chooses if to save print content during monitoring, save print content as Tiff image or reprint document. (This function is not available in versions before V2.1).
- Printer name: click name link to check properties of printer. Printer basic information.
- Server name: the server name the printer connected with. Click server name link to check Server properties.
- Total tasks: task sum the server totally processed. Click link to view all print tasks information in Print log.
- Total pages: printed pages sum the server totally processed. Click link to view all print tasks information in Print log.
- Total cost: print cost sum the server totally processed. Click link to view all print tasks information in Print log.

Basic Properties Configuration for Printer



Printer basic properties

- General information shows printer's basic information including printer name, type, total tasks, total pages, total charge, server load, monitored or not, save print content or not, resolution ratio and start time.
- Printer name: printer name on print monitoring server.
- Type: printer type.
- Total print tasks: print tasks sum. Click Print log to review.
- Total pages: printed pages sum. Click Print log to review.
- Total charge: print charge sum.
- Load: printer work percent.
- Print tasks, pages, charge and load concern not only server, printer, user group and user setting but also print log.
- Server load describes the ratio between print tasks of printer and that of server:

  Load = (Print pages printer processed/Total print pages on server) * 100%

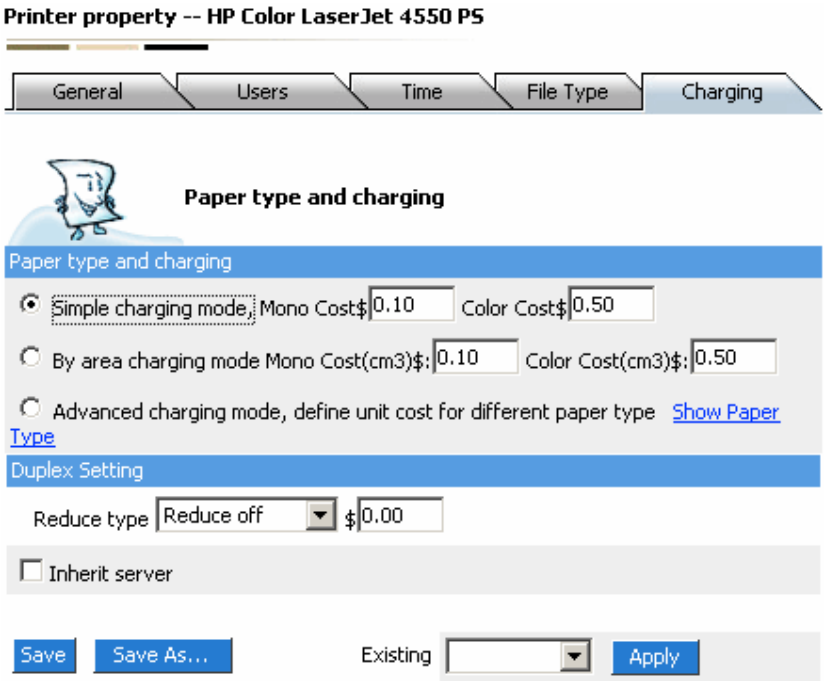
- If the monitored option box is selected, it indicates that the printer is monitored. Selecting or unselecting option box and click [Update] button to change monitored status.

- [Save print content] indicates if the printer saves print content or not. How to save print content, please refer to Four differences amount four save modes of Add Printers
- [Saved Image Resolution] determines saved images resolution ratio. there are 75, 100, 150, 200, 300 and 600DPI optional. Low resolution leads to low definition but saves disk space. On the contrary, high resolution brings high definition images but needs more disk spaces. The default setting is 300DPI.
- Click [Update] to save current setting.
- Click [Reset] to restore initialized status.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Configuration information can be managed in Configuration Template Management of Settings.

Configure Printer Charge Properties



Printer charge properties:

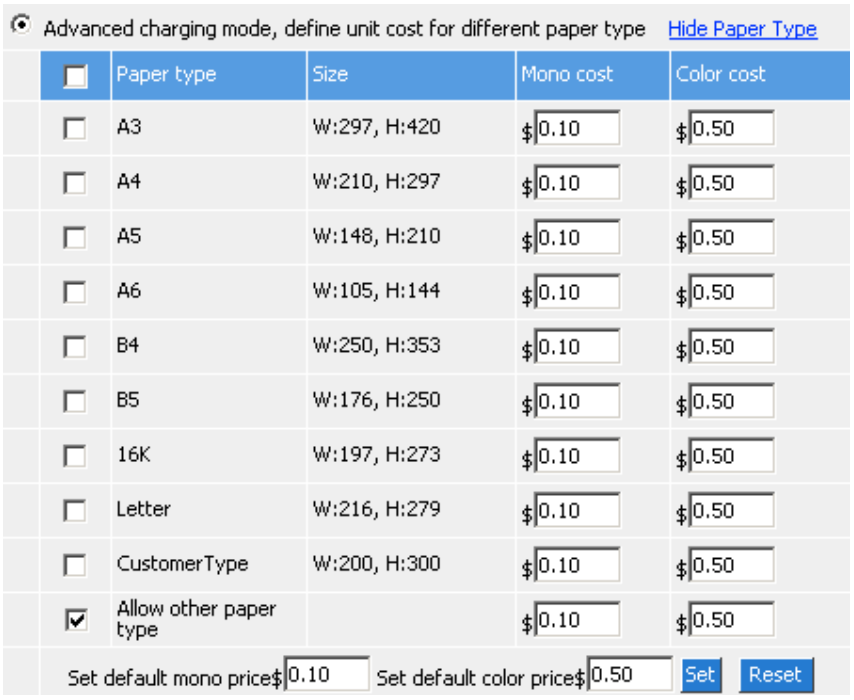
- Inherit server settings:

  Under selected status, all settings inherits server charge settings and cannot be modified. If clear [Inherit server settings] option, printer charge setting can be individually configured. Please refer to Server Charge Settings.

- Select from existing configuration templates. Please refer to Template Management.

Charge Explanation

- Simple charge mode: same charge for each page, either single page or double page.
- Charge by area: charge as per different color and exact area, either single page or double, A4 or A3.
- Advanced charge mode: different paper type, different charge.
- Advanced mode: makes unit price for each paper type and every paper can use B/W price and color price. One can set price default for all paper type.


Advanced charging mode, define unit cost for different paper type
Hide Paper Type
Paper type
Size
Mono cost
Color cost
A3 W:297, H:420 $0.10 $0.50
A4 W:210, H:297 $0.10 $0.50
A5 W:148, H:210 $0.10 $0.50
A6 W:105, H:144 $0.10 $0.50
B4 W:250, H:353 $0.10 $0.50
B5 W:176, H:250 $0.10 $0.50
16K W:197, H:273 $0.10 $0.50
Letter W:216, H:279 $0.10 $0.50
CustomerType W:200, H:300 $0.10 $0.50
Allow other paper type $0.10 $0.50
Set default mono price$0.10
Set default color price$0.50
Set
Reset

When user doesn't select paper type, the print will be rejected. For example, if user prints with A3 paper but doesn't select A3 paper, the print will be rejected.
If user doesn't select [Allow other paper type], when paper is different from above listed paper type, the print will be rejected.

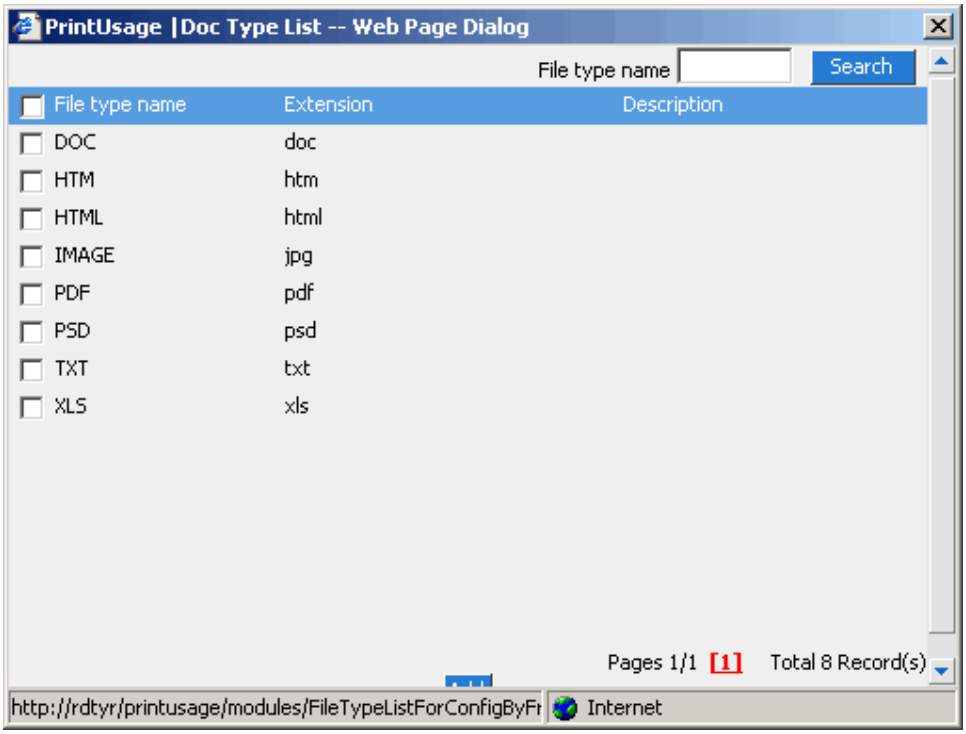
- Save template as... : current configuration will be saved as configuration file which can be used when need. The management and Settings can be done by Settings--->Configuration Template Management--->Server Templates.
- Select from existing template: select from existing server templates and reuse original configuration. The current configuration is template finger quotation.
- Click [Save configuration] to save current configuration. The current configuration is template value quotation.
- Click [Save configuration as...] to save current server configuration. Input name in dialog box and press confirm to complete new template.
- Click [Reset all son objects] to return page to last successful saving status.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Configure Printer File Type

File Type

- All file types are authorized: except for file types listed.
- All file types are rejected: except for file types listed.
- Selection usage of file types:
  - Click [Add] to select file types needed in pop-up dialog box.



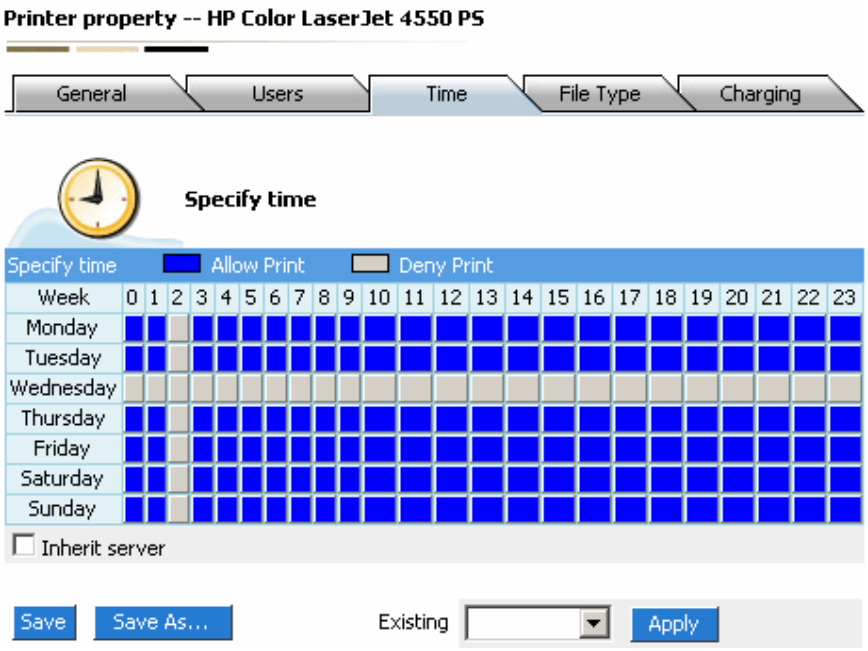
After selection, click [Add]. You will find file types in type list of user group properties and then click [Save] to complete.

- If the user group doesn't use file types listed any more, please select file types and click [Remove] and then [Save].

- File size limit: max upper limit file size in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Page limit: upper limit of page in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Key words limit: to input some special key words such as Resume and Sex to reject the print when file printed is included such words in the name by filtering the file name. The key words should be divided by **semicolon (;)** .
- Charge limit: max upper limit of charge in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Configuration name: to input a name to save current user configuration for late use.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User Group configuration.
- Click [Save template as...] to save current User Group configuration. For late use or configuring other User Group, which can be managed in Configuration template management of Settings.
- Click [Reset all sun objects properties] to return to page original status, that is to return to last save.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Configure Print Time of Printer

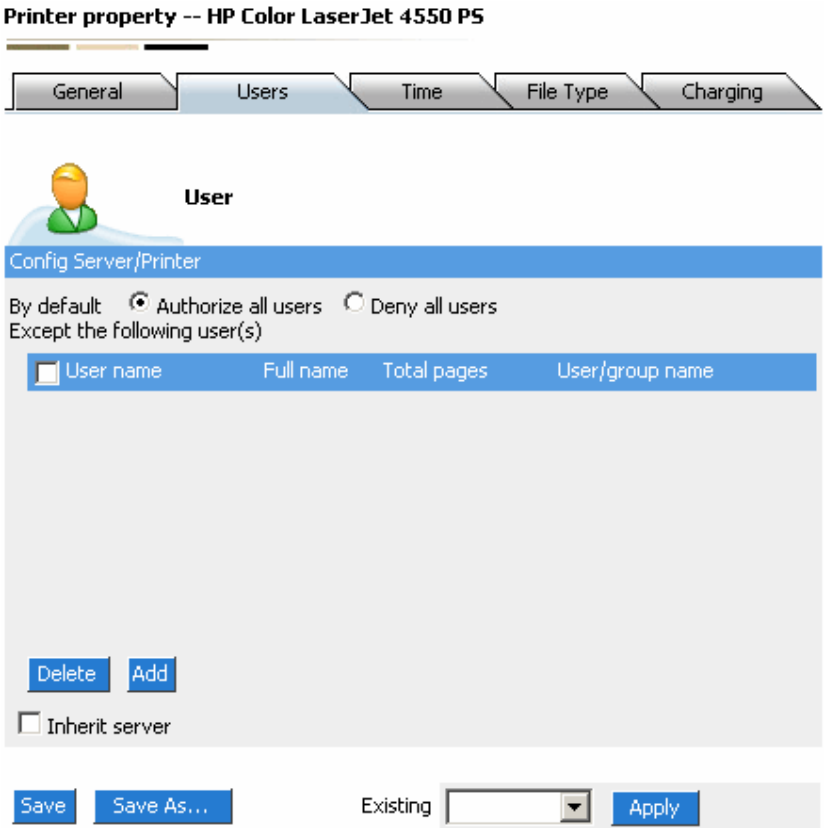


Configure Print Time of Printer

- Inherit server settings:
  - When selected, printer monitoring time will inherit related time settings from the server.
  - When unavailable, the monitoring time cannot be selected because there is no time settings on server.
  - When not selected, user can set printer time individually to cover server time settings.
- Print allow, print reject: blue refer to allow and grey refer to reject. You can choose by two option boxes. Detailed settings:
  - To select one column, please click the head of the column. For example, to click digit 2 will select whole column.
  - To select one line, please click the head of the line.
  - To select whole timetable, please click grid of Week.
- Configuration name: to input a name to save current user configuration for late use.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User Group configuration.
- Click [Save as...] to save a modified configuration as a new one, which can be managed in Configuration template management of Settings.
- Click [Reset] and refresh page to return to page original status.

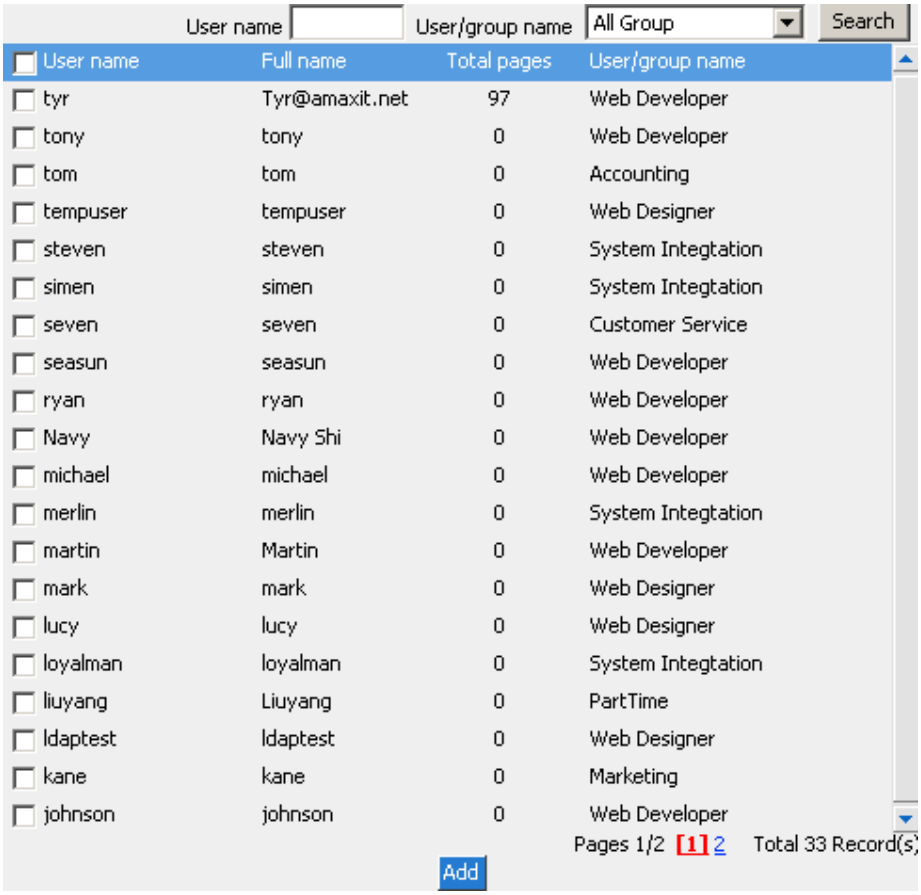
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Configure User Properties



Configure User Properties

- Inherit server settings:
  - When selected, printer monitoring time will inherit related time settings from the server.
  - When unavailable, the monitoring time cannot be selected because there is no time settings on server.
  - When not selected, user can set printer time individually to cover server time settings.
- Custom selection:
  - Add user in list. Click [Add] to select user name needed in pop-up dialog box.


User name
User/group name
All Group
Search
User name
Full name
Total pages
User/group name
tyr Tyr@amaxit.net 97 Web Developer
tony tony 0 Web Developer
tom tom 0 Accounting
tempuser tempuser 0 Web Designer
steven steven 0 System Integtation
simen simen 0 System Integtation
seven seven 0 Customer Service
seasun seasun 0 Web Developer
ryan ryan 0 Web Developer
Navy Navy Shi 0 Web Developer
michael michael 0 Web Developer
merlin merlin 0 System Integtation
martin Martin 0 Web Developer
mark mark 0 Web Designer
lucy lucy 0 Web Designer
loyalman loyalman 0 System Integtation
liuyang Liuyang 0 PartTime
ldaptest ldaptest 0 Web Designer
kane kane 0 Marketing
johnson johnson 0 Web Developer
Pages 1/2 [1] 2 Total 33 Record(s)
Add

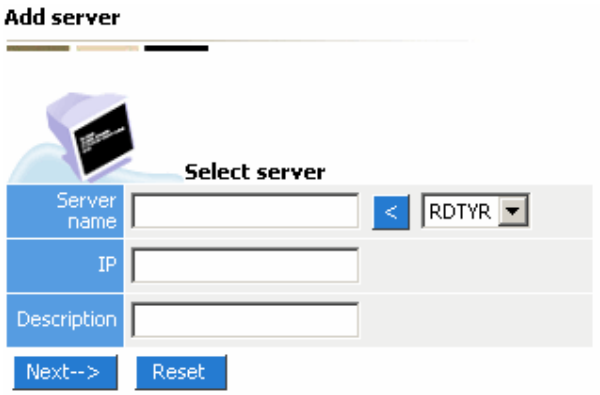
Select user needed to be added and click [Add] and [Save] to add user into list.

- Remove user from list. Select user need to be removed and Click [Remove] [Save] to remove user from list.

- Click [Save] to save current print settings.
- Click [Save template as...] to save current printer settings as a new one, which can be modified in Configuration template management of Settings.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Add Print Server to Manager site:



Setp one: Select server

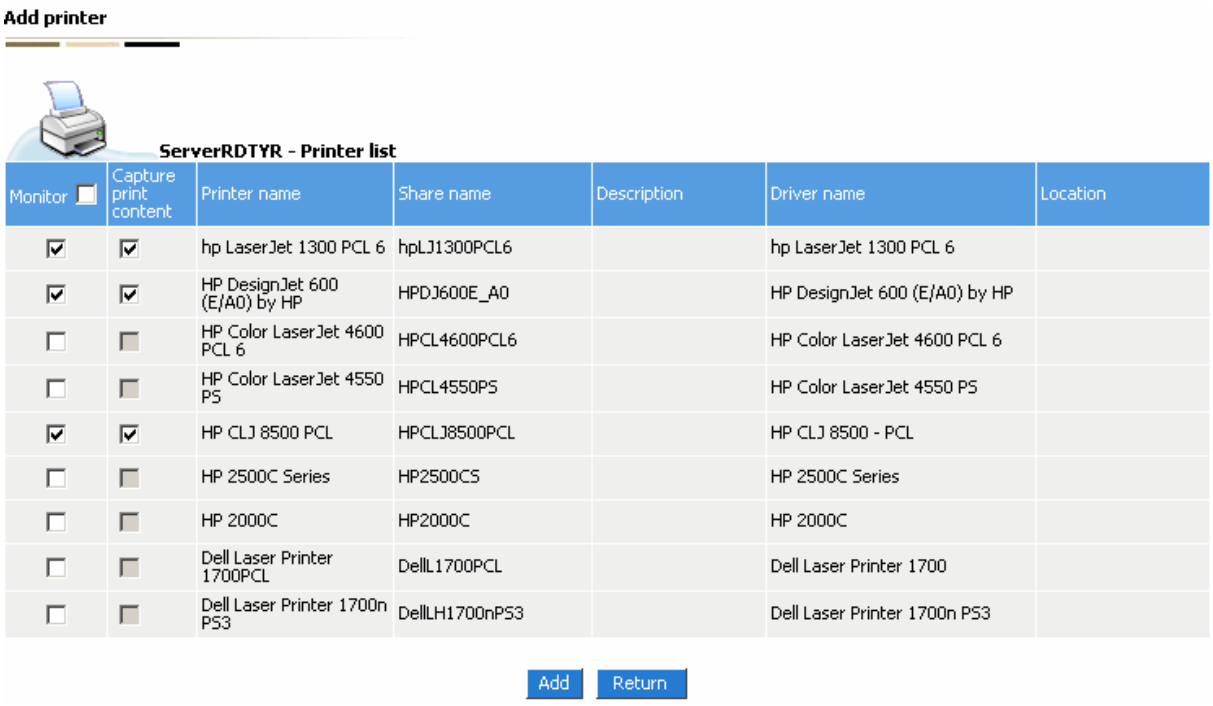
- In draw-down box of [Server Nme], select print server name, click select button "<", and then click [Next].
- IP address and description are optional.
- Server list in draw-down box refers to the servers that have been successfully installed print monitoring service.

Note: necessary condition that server names is displayed in right side list of [Add Server]

1. The server has installed PrintUsage monitoring service.

2. Specific dominating server should install Web site management.

Step Two: Add printers monitored by server



Select printers monitored by server:

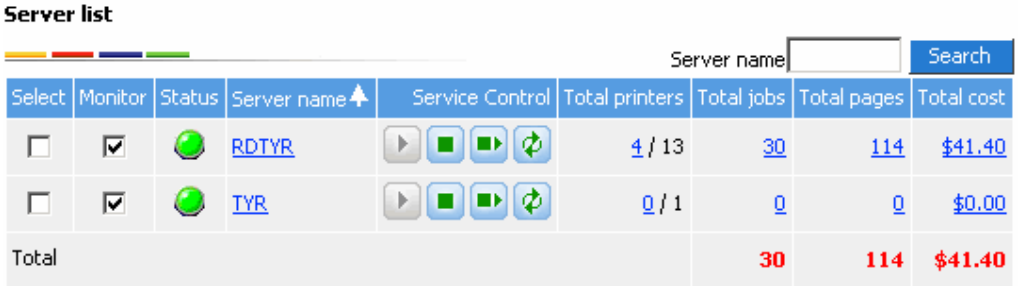
Enter printers list of the server and select printers need to be monitored.

Select [Save print content] option box ☑ if wish to monitor print content, and then click [Submit] at the bottom.

If printer can be monitored, user can select if saving print content or not.

Note: Not all types of printers support print content save. If you find the print content saved is in confusing codes or are notified not be saved, most possible issue is your printers or drivers used are not supported by system. If you need to obtain print content, please set save mode as any mode except for [Not Save]

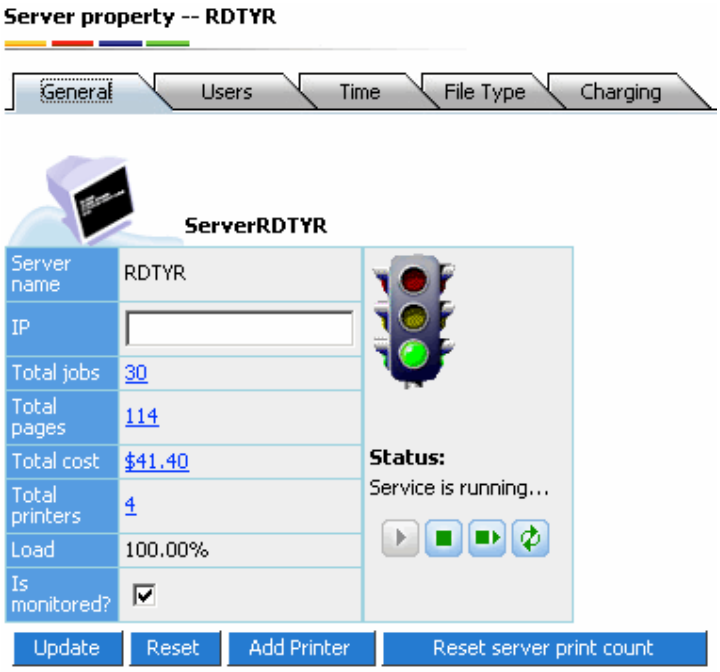
Server Group--Server List



Litst the information of all servers:

- Find server name: finds server list by server name. Supports **inkling** Inquiry.
- Click [Add] to add print monitoring server.
- Click [Update] to submit.
- Click [Remove] to remove selected print monitoring server. If remove certain server, please select the option box of [Remove] column and then click [Remove] button at the bottom.
- Click [Reset] to clear selected print monitoring server.
- Monitored: if not select [Monitored] option box before the server, the server would not be monitored; if monitor the server, please select [Monitored] option box and then click [Update] button at the bottom.
- Monitored server name: server name. Click link of server name to view Properties of server, such as server basic information and configuration properties.
- Control server: manage print monitoring service by Web interface. The monitoring service on print monitoring server can be control by Web mode, such as print monitoring, monitoring pause and service restart.
- Printer quantity: two types: one is the number of monitored printers connected with the server and added into system, the other is all printers connected with the server, i.e. 2/11 shows the server is connecting 11 printers and two is monitored. Click 2, the information of two printers can be displayed. The first number of the printers number is less than equal to your license number. For example, if current monitored printers are 100, the license number is 100.
- Tasks: the number of all print tasks the server is processing. Click the link to check all print task information in print log.
- Pages: the number of all print pages the server is processing. Click the link to check all print task information in print log and queue by print pages of each task in default.
- Cost: total cost refers to all print tasks cost sum the server is processing. Click the link to check all print task information in print log and queued by print cost of each task in default.
- Total tasks, pages and cost are not only related with print server configuration but also log. Please refer Configuration-->Data Maintenance
- Letter in red bold shows the sum of printer relevant item on the server.

Basic Properties Configuration for Server

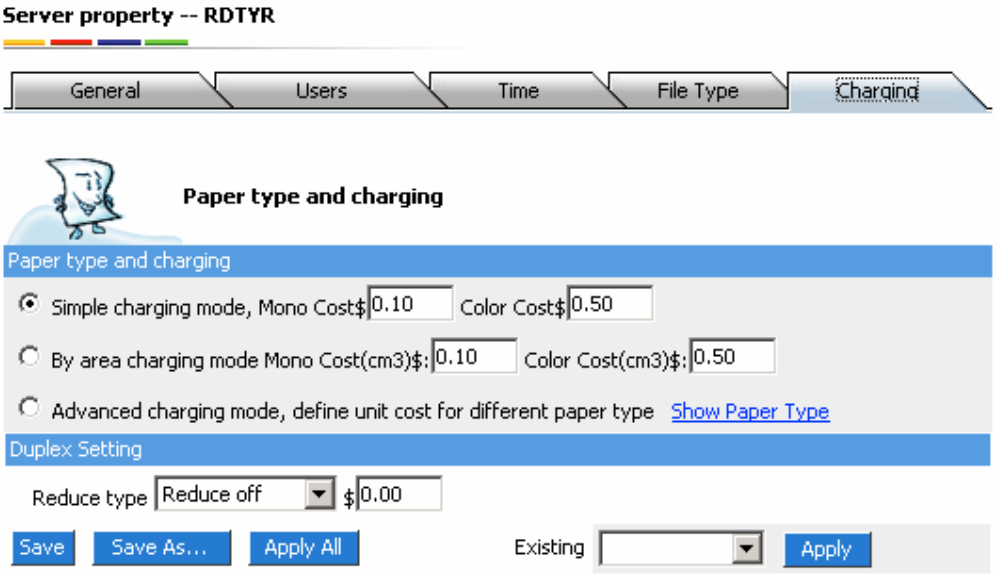


General Information

- General information shows server's basic information including server name, IP, total tasks, total pages, total charge, printer numbers, load, monitored or not, and server monitoring service status.
- Server name: print monitoring server name is the server ID in system, which is unchangeable.
- IP: only description for print monitoring server.
- Total print tasks: print tasks sum. Click digit to view Print Log.
- Total printed pages: printed pages sum. Click digit to view Print Log.
- Total charge: print charge sum. Click digit to view Print Log.
- Printer numbers: printers sum. Click digit to view monitored printers by the server.
- Load describes the ratio between print tasks server processed and total print tasks:
  Load = (Print pages server processed/Total printed pages) * 100%

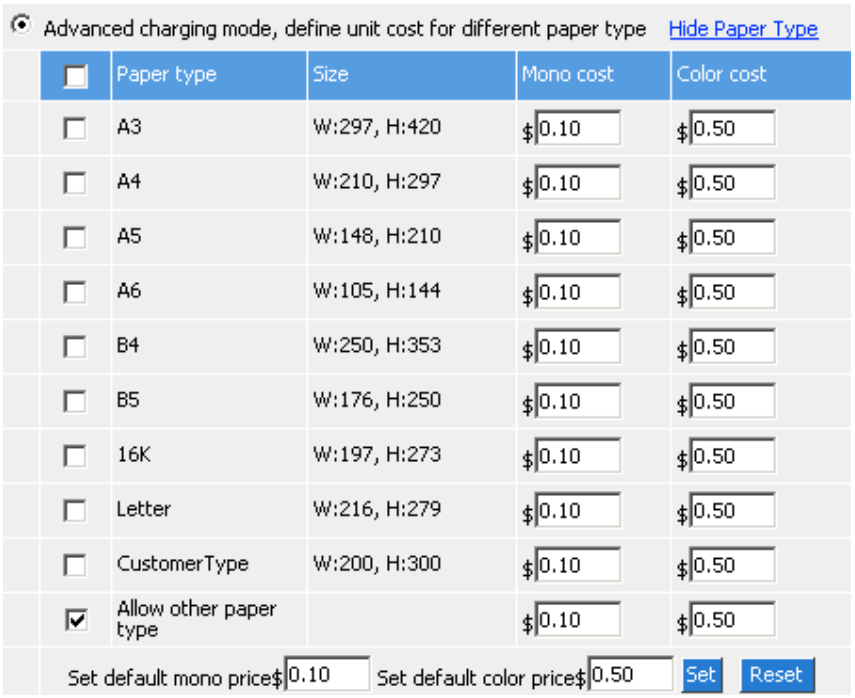
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Server Property---Charging



Charge Explanation

- Simple charge mode: same charge for each page, either single page or double page.
- Charge by area: charge as per different color and exact area, either single page or double, A4 or A3.
- Advanced charge mode: different paper type, different charge.
- Advanced mode: makes unit price for each paper type and every paper can use B/W price and color price. One can set price default for all paper type.

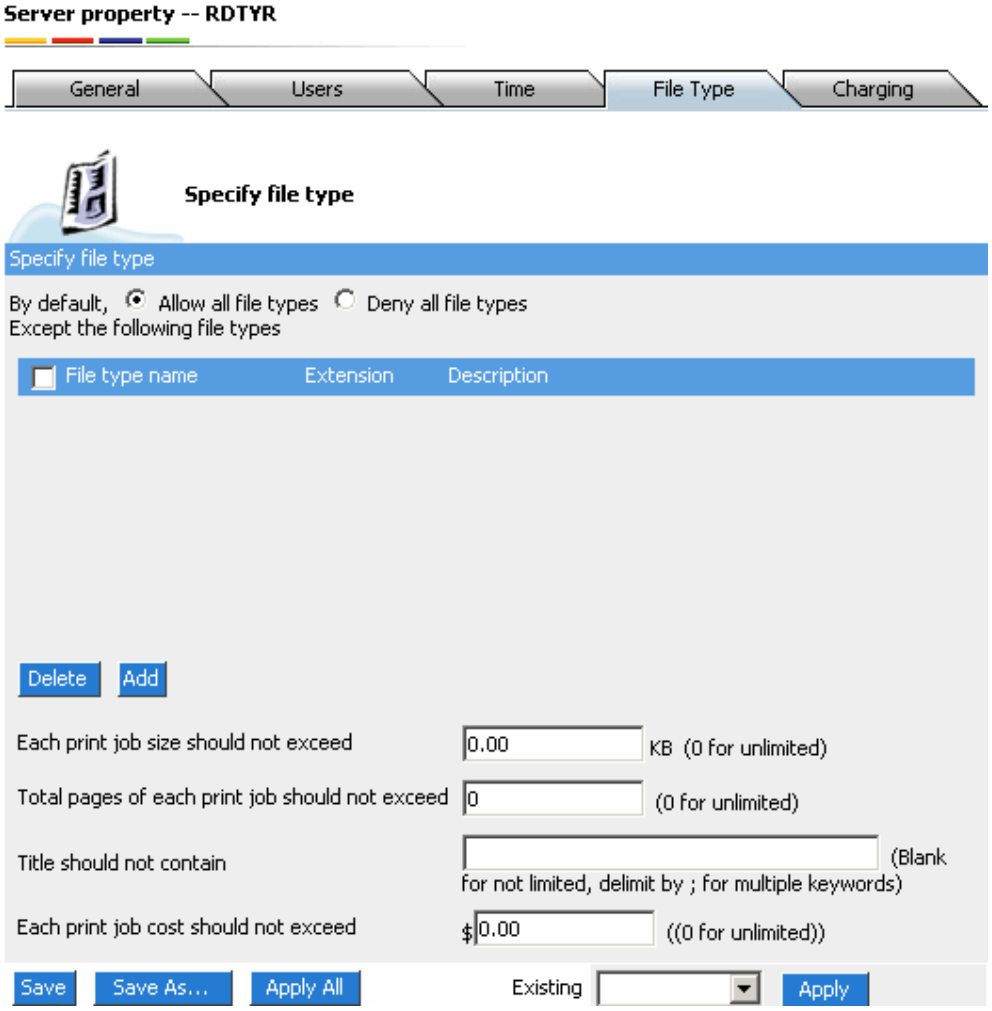

Advanced charging mode, define unit cost for different paper type Hide Paper Type
Paper type
Size
Mono cost
Color cost
A3 W:297, H:420 $0.10 $0.50
A4 W:210, H:297 $0.10 $0.50
A5 W:148, H:210 $0.10 $0.50
A6 W:105, H:144 $0.10 $0.50
B4 W:250, H:353 $0.10 $0.50
B5 W:176, H:250 $0.10 $0.50
16K W:197, H:273 $0.10 $0.50
Letter W:216, H:279 $0.10 $0.50
CustomerType W:200, H:300 $0.10 $0.50
Allow other paper type $0.10 $0.50
Set default mono price$ 0.10 Set default color price$ 0.50 Set Reset

When user doesn't select paper type, the print will be rejected. For example, if user prints with A3 paper but doesn't select A3 paper, the print will be rejected.
If user doesn't select [Allow other paper type], when paper is different from above listed paper type, the print will be rejected.

- Save template as... : current configuration will be saved as configuration file which can be used when need. The management and Settings can be done by Settings--->Configuration Template Management--->Server Templates.
- Select from existing template: select from existing server templates and reuse original configuration. The current configuration is template finger quotation.
- Click [Save configuration] to save current configuration. The current configuration is template value quotation.
- Click [Save configuration as...] to save current server configuration. Input name in dialog box and press confirm to complete new template.
- Click [Reset all son objects] to return page to last successful saving status.

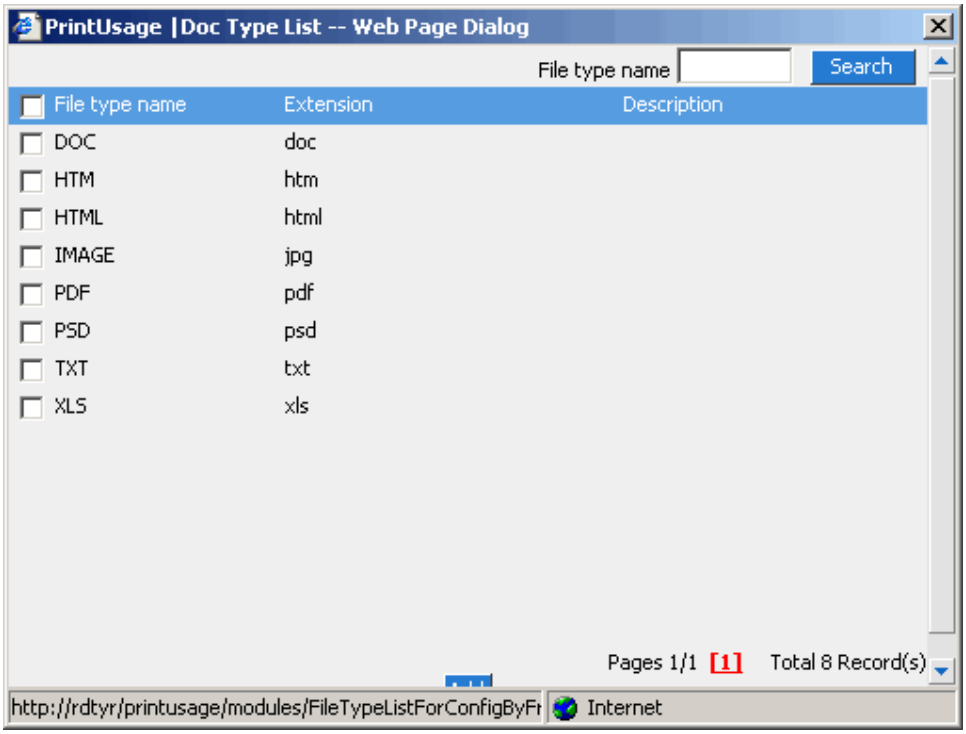
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Server Property---File Type



File Type

- All file types are authorized: except for file types listed.
- All file types are rejected: except for file types listed.
- Selection usage of file types:
  - Click [Add] to select file types needed in pop-up dialog box.



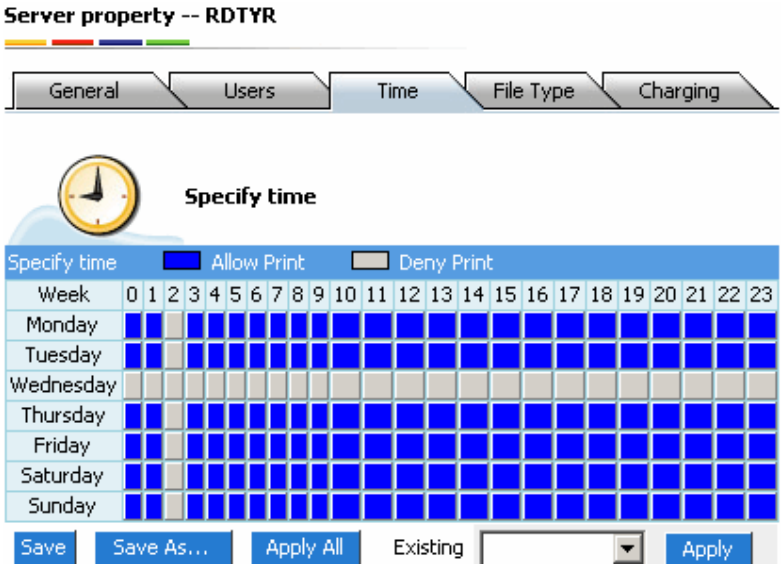
After selection, click [Add]. You will find file types in type list of user group properties and then click [Save] to complete.

- If the user group doesn't use file types listed any more, please select file types and click [Remove] and then [Save].

- File size limit: max upper limit file size in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Page limit: upper limit of page in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Key words limit: to input some special key words such as Resume and Sex to reject the print when file printed is included such words in the name by filtering the file name. The key words should be divided by **semicolon (;)** .
- Charge limit: max upper limit of charge in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Configuration name: to input a name to save current user configuration for late use.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User Group configuration.
- Click [Save template as...] to save current User Group configuration. For late use or configuring other User Group, which can be managed in Configuration template management of Settings.
- Click [Reset all sun objects properties] to return to page original status, that is to return to last save.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Server Property---Time



Configure Print Time of Server

- Print allow, print reject: blue refer to allow and grey refer to reject. You can choose by two option boxes. Detailed settings:
  - To select one column, please click the head of the column. For example, to click digit 2 will select whole column.
  - To select one line, please click the head of the line.
  - To select whole timetable, please click grid of Week.
- Configuration name: to input a name to save current user configuration for late use.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User Group configuration.
- Click [Save as...] to save a modified configuration as a new one, which can be managed in Configuration template management of Settings.
- Click [Reset] and refresh page to return to page original status.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Server Property---Users

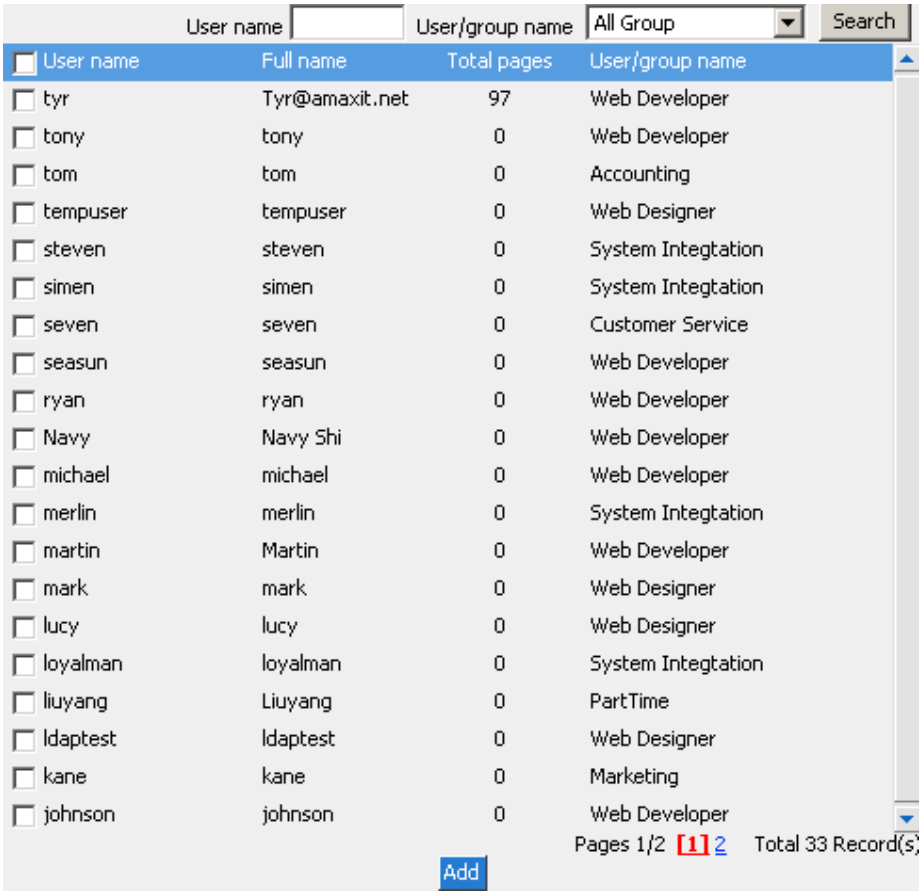
User

-- All users are authorized to use, except for those listed.

-- All users are rejected to use, except for those listed.

Custom Selection:

- Add user in list. Click [Add] to select user name needed in pop-up dialog box.

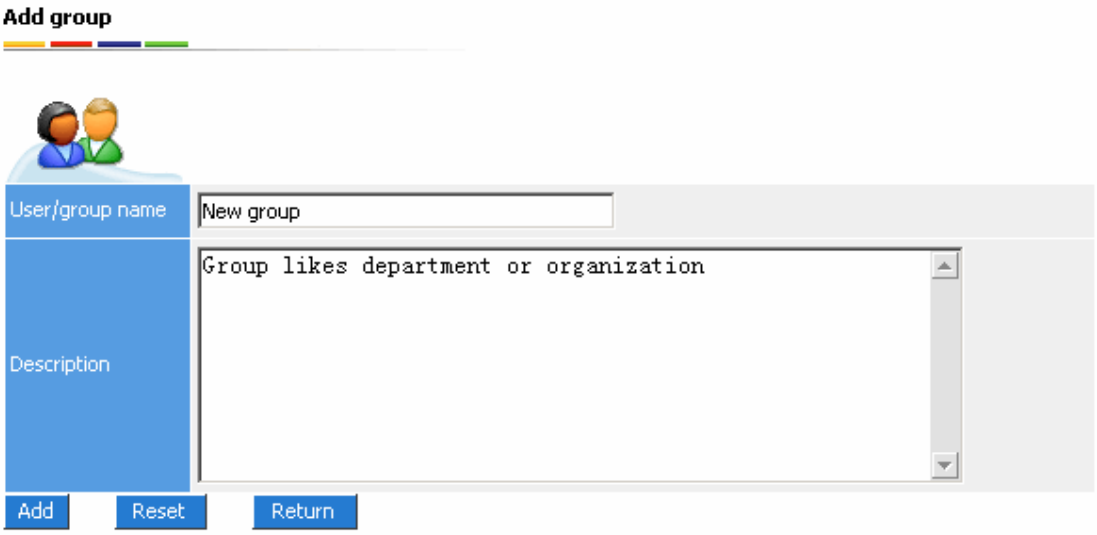

User name
User/group name
All Group
Search
User name
Full name
Total pages
User/group name
tyr Tyr@amaxit.net 97 Web Developer
tony tony 0 Web Developer
tom tom 0 Accounting
tempuser tempuser 0 Web Designer
steven steven 0 System Integtation
simen simen 0 System Integtation
seven seven 0 Customer Service
seasun seasun 0 Web Developer
ryan ryan 0 Web Developer
Navy Navy Shi 0 Web Developer
michael michael 0 Web Developer
merlin merlin 0 System Integtation
martin Martin 0 Web Developer
mark mark 0 Web Designer
lucy lucy 0 Web Designer
loyalman loyalman 0 System Integtation
liuyang Liuyang 0 PartTime
ldaptest ldaptest 0 Web Designer
kane kane 0 Marketing
johnson johnson 0 Web Developer
Pages 1/2 [1] 2 Total 33 Record(s)
Add

Select user needed to be added and click [Add] and [Save] to add user into list.

- Remove user from list. Select user need to be removed and Click [Remove] [Save] to remove user from list.

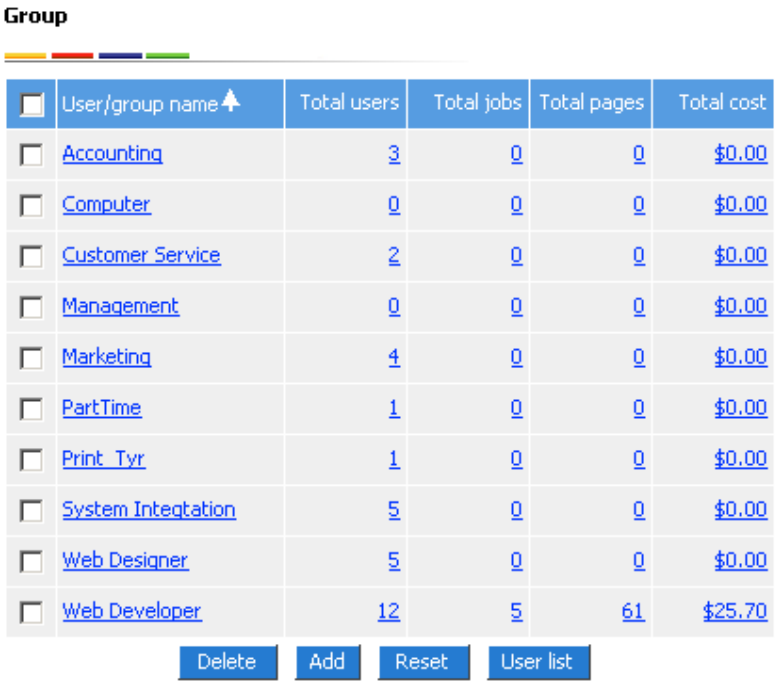
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Add Group



- User/group name can be treated as department.
- Description is for group name or group detailed explanation.
- Click [Add] to save user information into database. Group name is required.
- Click [Add], it will display Group Setup.
- Click [Reset] to clear all tables.
- Click [Return] to return to Group List.
- After successful group adding, the new group will display in Group List.

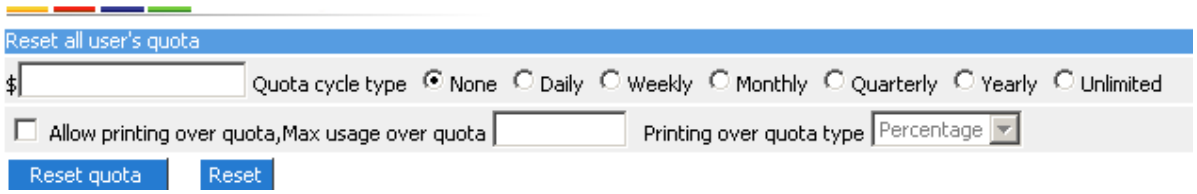
Group List



- List displays all groups of system. Group can be treated as department.
- Click [Delete] to remove selected groups. The users belong to the group will be removed at the same time.
- Click [Add] to enter Add Group.
- Click [User List] to enter User List.
- Click [Group Name] to enter Group Setup.
- Click user number link to enter Group User List. It shows user number of group, which can be treated as user sum of the department.
- Click total jobs link to view group Print Log. It shows all print tasks since Install and start print monitoring service.
- Click total pages link to view group Print Log. It shows all print pages since Install and start print monitoring service.
- Click total cost link to view group Print Log. It shows all print charges since Install and start print monitoring service.
- After user recalculate the amount according to log, print jobs, pages and cost will cumulate based on the amount.

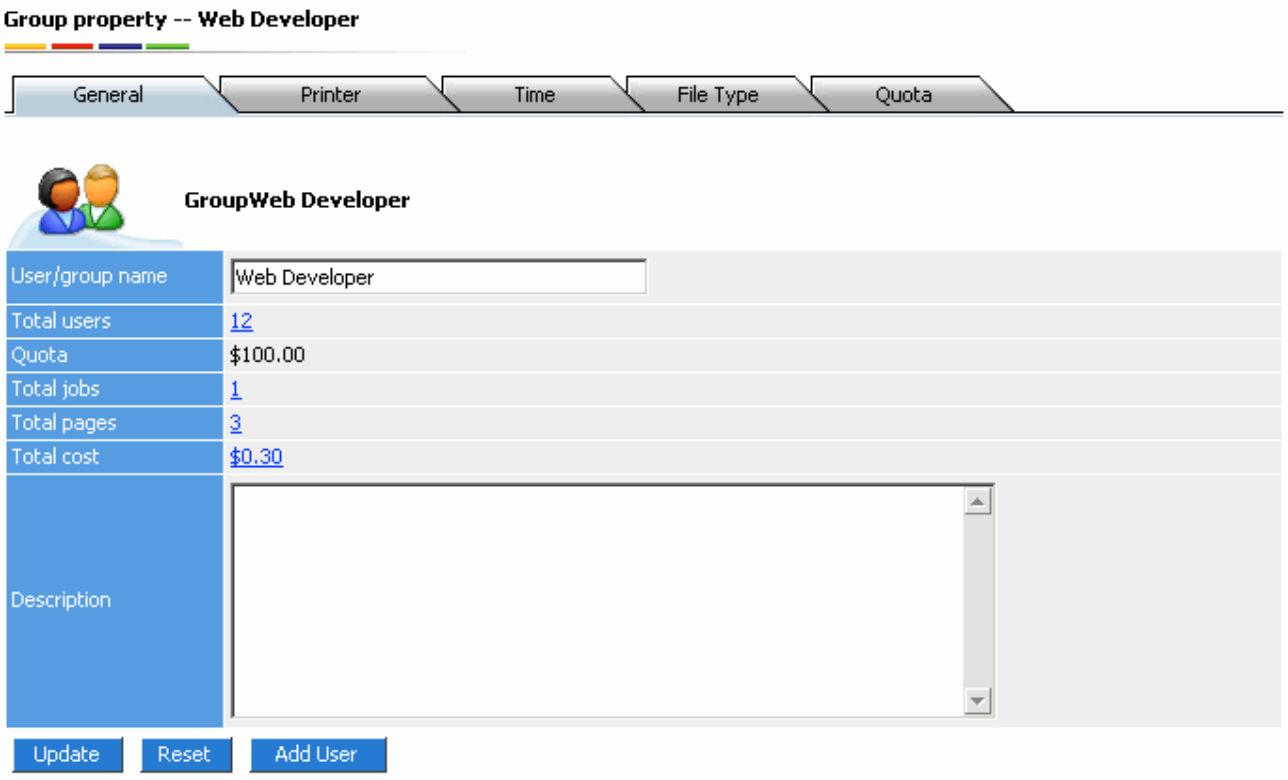
Quota Reset

Reset all user's quota



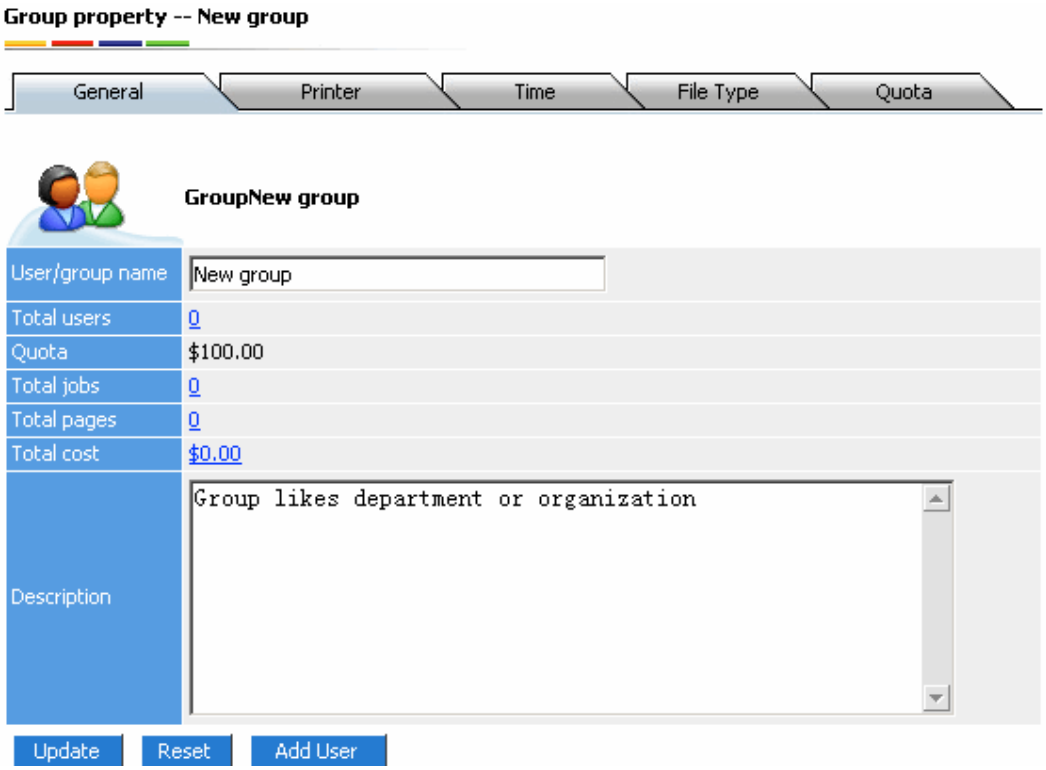
- User's quota: available print charge given to user in unit period (day, week, month...).
- Allow printing over quota, Max usage over quota: the value input must be plus. User can properly overdraft print charge according to overdraft type selection.
  Ration: user can overdraft charge as per upper limit setting.
  Percentage: user can overdraft charge as per percentage of total print charge, such as 20% of total charge.
- Click [Save] to save current settings.
- Click [Reset] to load the default settings.

Group Setup

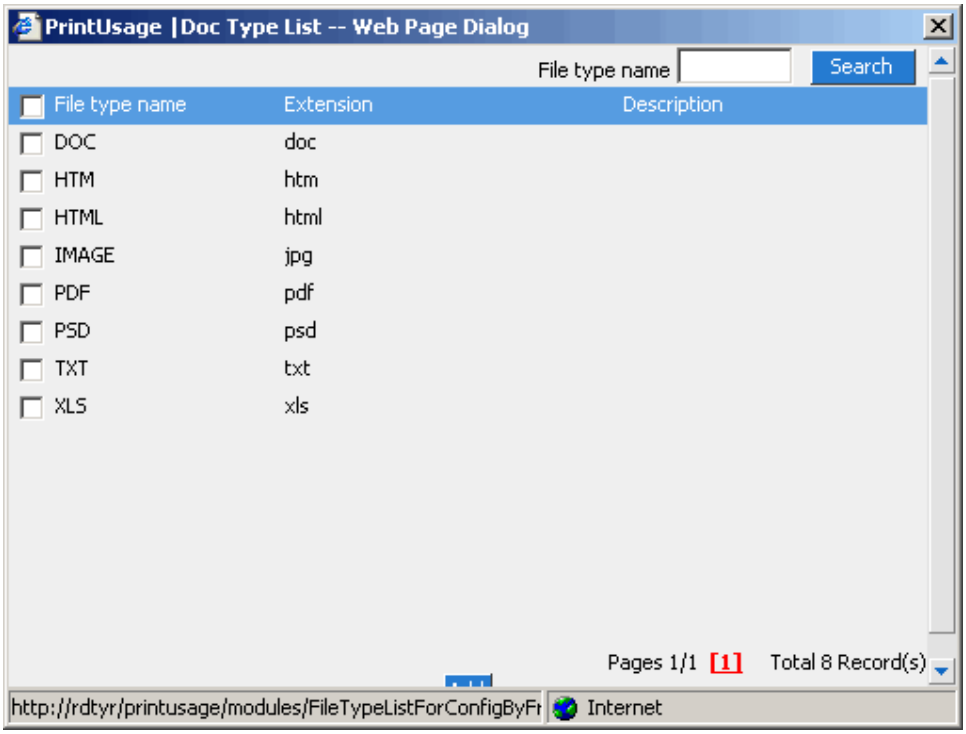


- User/Group name can be treated as company, department and office.
- Total user refers to group user number. Click digit link to enter Group User List.
- Quota refers to max. printing charges allowed for user in one period such as one year, one month, one week and one day. User group quota can be set in Quota. The quota setting of user group will influence user Quota and balance.
- Total jobs refer to all print tasks since Install and start print monitoring service. Click digit link to view group Print Log.
- Total pages refer to all printed pages since Install and start print monitoring service. Click digit link to view group Print Log.
- Total cost refer to all print charges since Install and start print monitoring service. Click digit link to view group Print Log.
- Description is the explanation of group.
- Click [Update] to modify group information such as group name and description.
- Click [Reset] to load default setting.
- Click [Add User] to Add New User for group.
- Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Group File Type



- All file types are authorized: except for those listed.
- All file types are rejected: except for those listed.
- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in File Type page.
- Selection usage of file types:
  - Click [Add] to select file types needed in pop-up dialog box.



After selection, click [Add]. There display file types in type list of user group properties and then click [Save] to complete.

- If the user group doesn't use file types listed any more, please select file types and click [Remove] and then [Save].

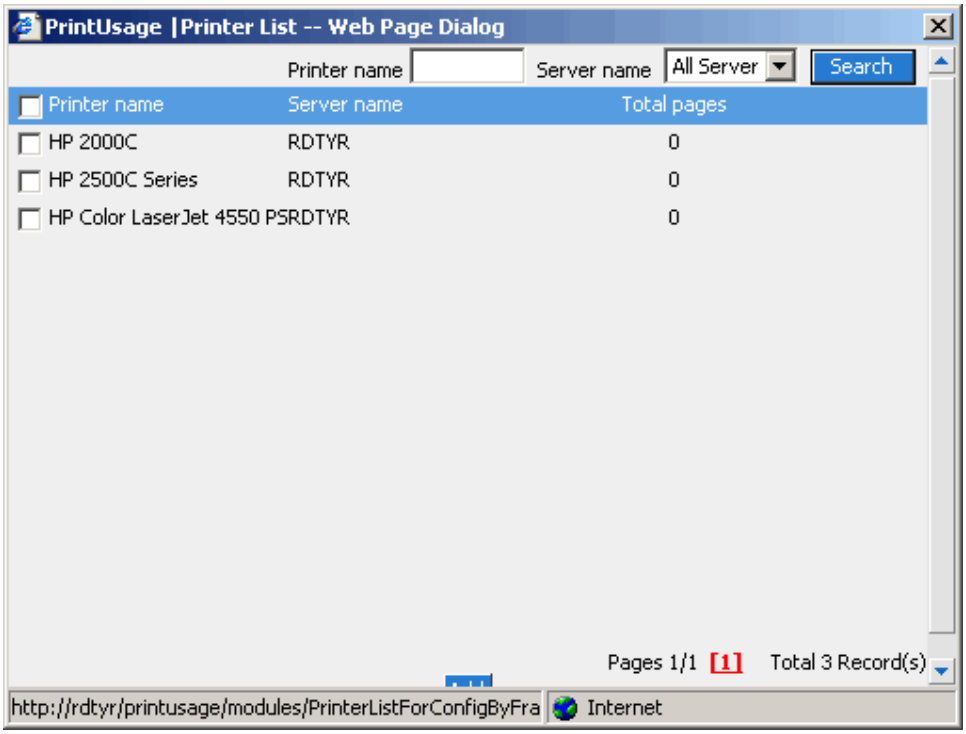
- File size limit: max upper limit file size in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Page limit: upper limit of page in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Key words limit: to input some special key words such as Resume and Sex to reject the print when file printed is included such words in the name by filtering the file name. The key words should be divided by **semicolon (;)**.
- Charge limit: max upper limit of charge in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Configuration name: to input a name to save current user configuration for late use.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User Group configuration.
- Click [Save template as...] to save current User Group configuration. For late use or configuring other User Group, which can be managed in Configuration template management of Settings.
- Click [Reset all sun objects properties] to return to page original status, that is to return to last save.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Settings information can be modified in Setup-->Setup Template Management.

Configure Printer Properties of User Group

- All printers are authorized to use: except for those listed.
- All printers are rejected: except for those listed.
- Printer selection usage:
    - Click [Add] to select printers needed in pop-up dialog box.



After selection, click [Add]. You will find printers in printer list of user group properties and then click [Save] to complete.

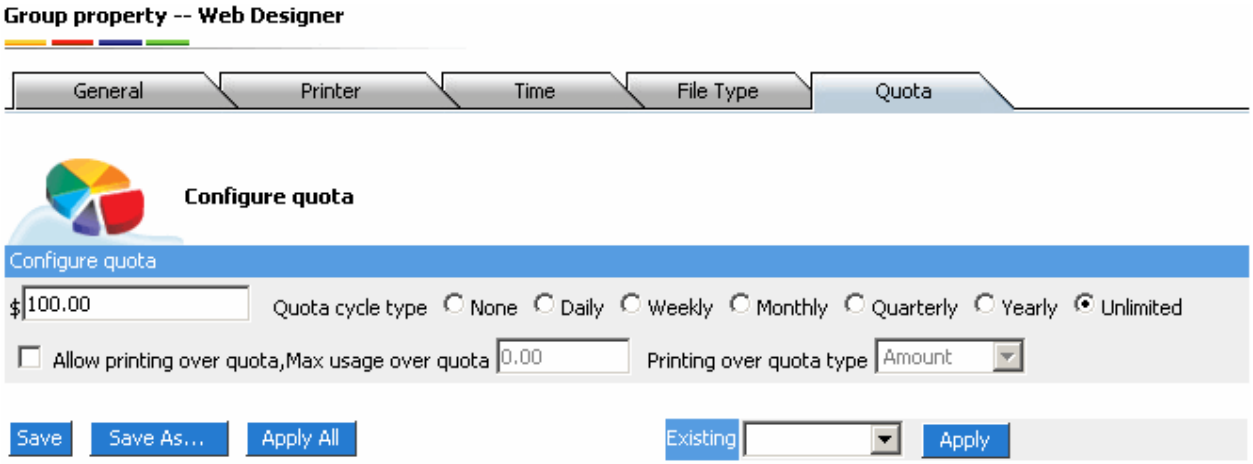
- If the user group doesn't use printer listed any more, please select printer and click [Remove] and then [Save].

- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in File Type page.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User configuration used for late or other group printer.
- Click [Save template as...] to save current User Group configuration for late use or configuring other User Group
- Click [Reset all sun objects properties] to return to page original status, that is to return to last save.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Settings information can be modified in Setup-->Setup Template Management.

Configure User Group Quota



- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in User Quota page. Please refer to Template Finger Quotation and Template Value Quotation in Setup-->Setup Template Management.

- User quota: available print charge given to user in unit period (day, week, month...).
  If selecting None, after user uses up quota, the print can not be continued. It needs administrator to allocate again.
  When selected type of day, week, quarter and year, user quota will be automatically renewed after one period.

  - Overdraft allowed, upper limit: the value input must be plus. Overdraft allowed, upper limit: the value input must be plus. User can properly overdraft print charge according to overdraft type selection.
    Ration overdraft: user can overdraft charge as per upper limit setting.
    Percentage overdraft: user can overdraft charge as per percentage of total print charge, such as 20% of total charge.

  - Click [Save] to save current User configuration.

  - Click [Save template as...] to save a modified template as a new one, which can be managed in Setup-->Setup Template Management.

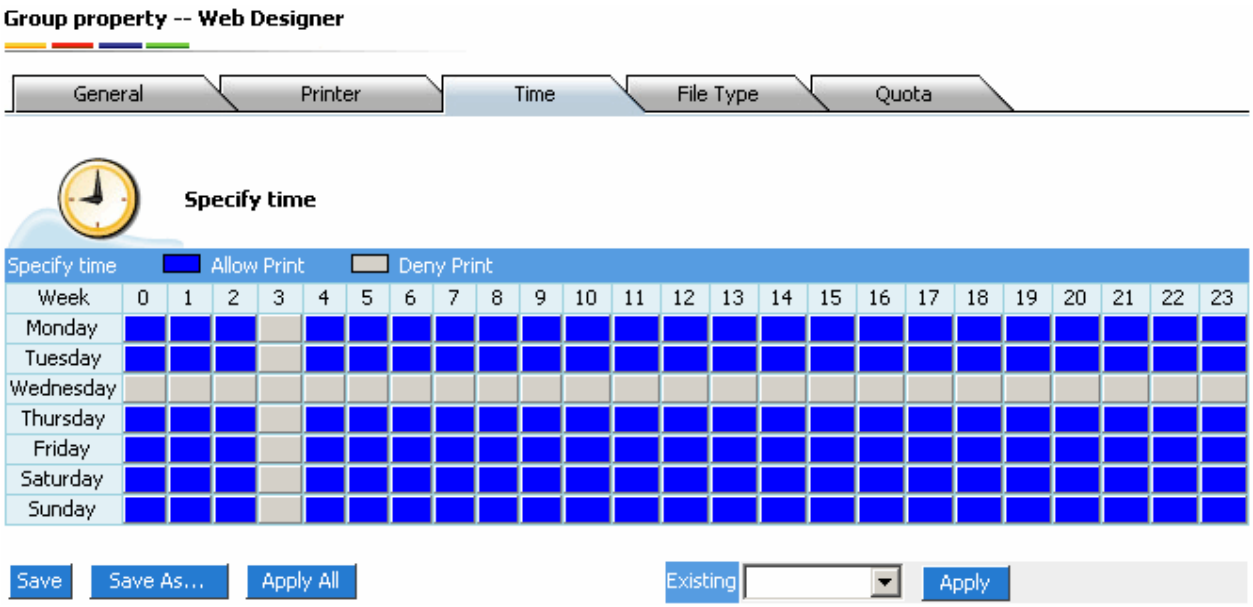
  - Click [Reset all sun objects properties] to refresh page and load default setting.

  - Click [Select from existing templates] to select existing template and click [Apply] to use current setting.

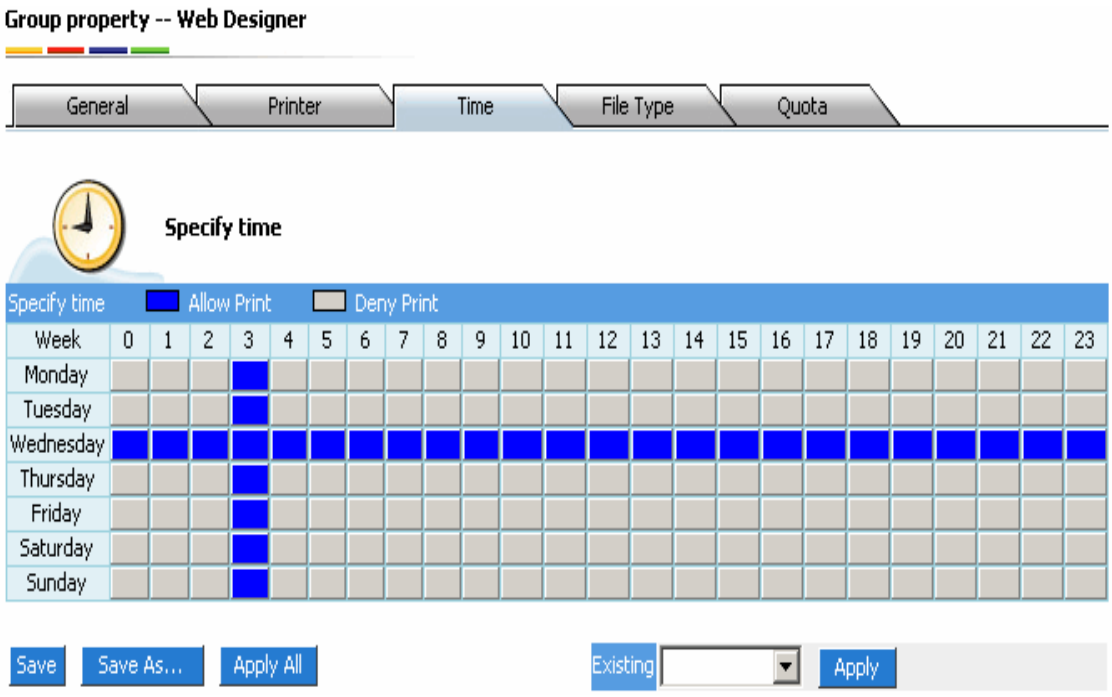
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Settings information can be modified in Setup-->Setup Template Management.

Configure User Group Time



- Print allow, print reject: blue refer to allow and grey refer to reject. Two option boxes are available for color selection. Detailed settings:
- To select one column, please click the head of the column. For example, to click digit 2 will select whole column.
- To select one line, please click the head of the line.
- To select whole timetable, please click grid of Week.



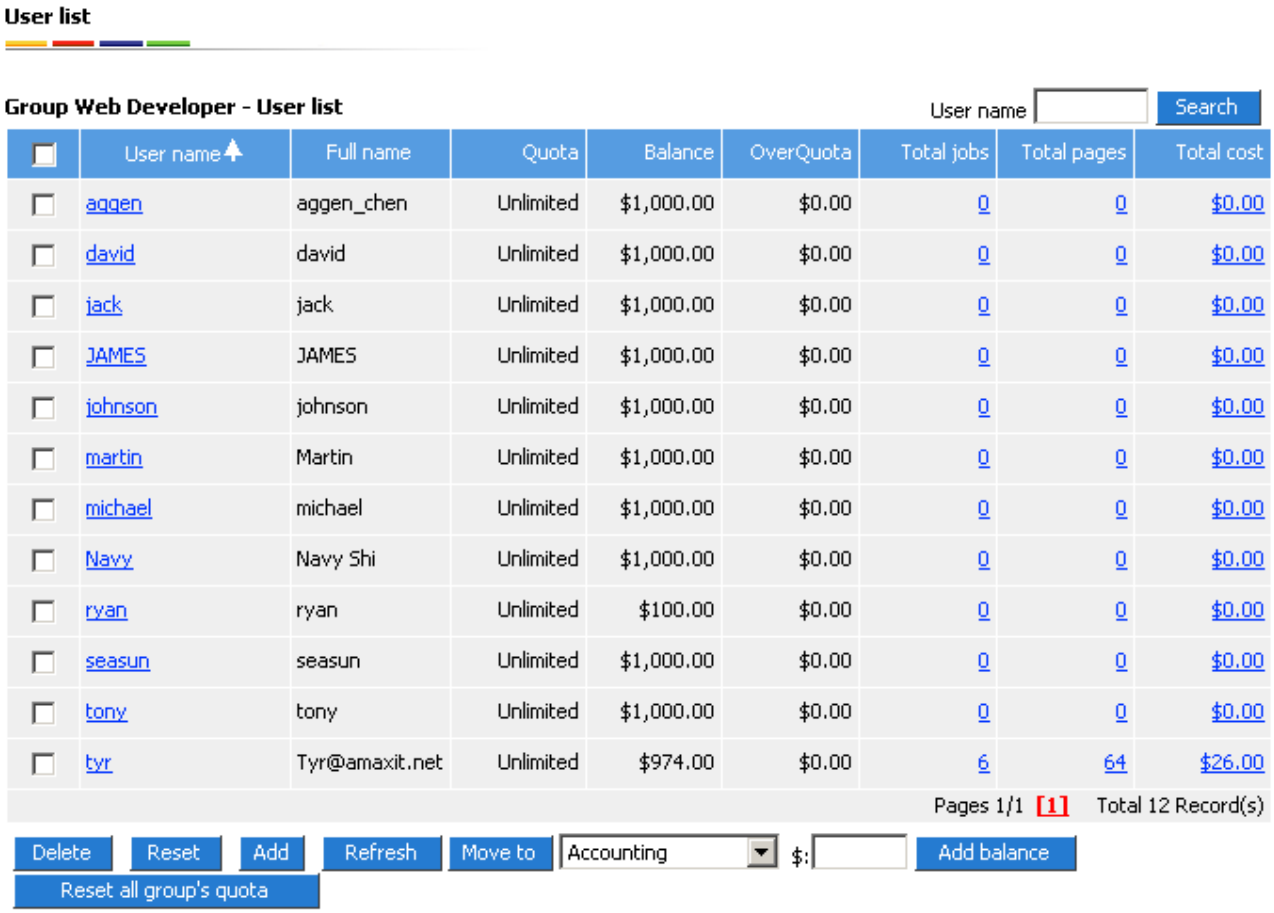
The figure shows that only the time of 3:00 to 3:59 on Wednesday is allowed to print. Other time period is rejected.

- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in User Quota page. Please refer to Template Finger Quotation and Template Value Quotation in Setup-->Setup Template Management.
- Click [Save] to save current User Group configuration.
- Click [Save as...] to save a modified configuration as a new one, which can be managed in of Settings of Configuration template management.
- Click [Reset all sun objects properties] to refresh page and load default setting.
- Click [Select from existing templates] to select existing template

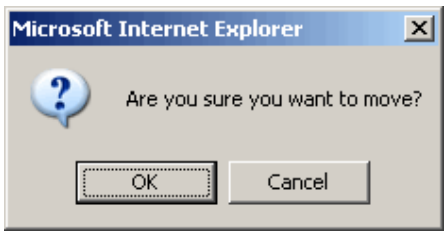
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Settings information can be modified in Setup-->Setup Template Management.

Group User List


User list
Group Web Developer - User list
User name
Search
User name
Full name
Quota
Balance
OverQuota
Total jobs
Total pages
Total cost
aggen aggen_chen Unlimited $1,000.00 $0.00 0 0 $0.00
david david Unlimited $1,000.00 $0.00 0 0 $0.00
jack jack Unlimited $1,000.00 $0.00 0 0 $0.00
JAMES JAMES Unlimited $1,000.00 $0.00 0 0 $0.00
johnson johnson Unlimited $1,000.00 $0.00 0 0 $0.00
martin Martin Unlimited $1,000.00 $0.00 0 0 $0.00
michael michael Unlimited $1,000.00 $0.00 0 0 $0.00
Navy Navy Shi Unlimited $1,000.00 $0.00 0 0 $0.00
ryan ryan Unlimited $100.00 $0.00 0 0 $0.00
seasun seasun Unlimited $1,000.00 $0.00 0 0 $0.00
tony tony Unlimited $1,000.00 $0.00 0 0 $0.00
tyr Tyr@amaxit.net Unlimited $974.00 $0.00 6 64 $26.00
Pages 1/1 [1] Total 12 Record(s)
Delete
Reset
Add
Refresh
Move to
Accounting
$:
Add balance
Reset all group's quota

- Input user name to query related user and support inkling query.
- Click [Remove] to remove selected users. After removing, the print log of user will not be removed.
- Click [Reset] to load default page.
- Click [Add] to enter Add User page.
- Click [Move to Group] to move selected user to specific group. When user is moved to specific group, it is optional to move print charge count to new group but leave print log in old group.

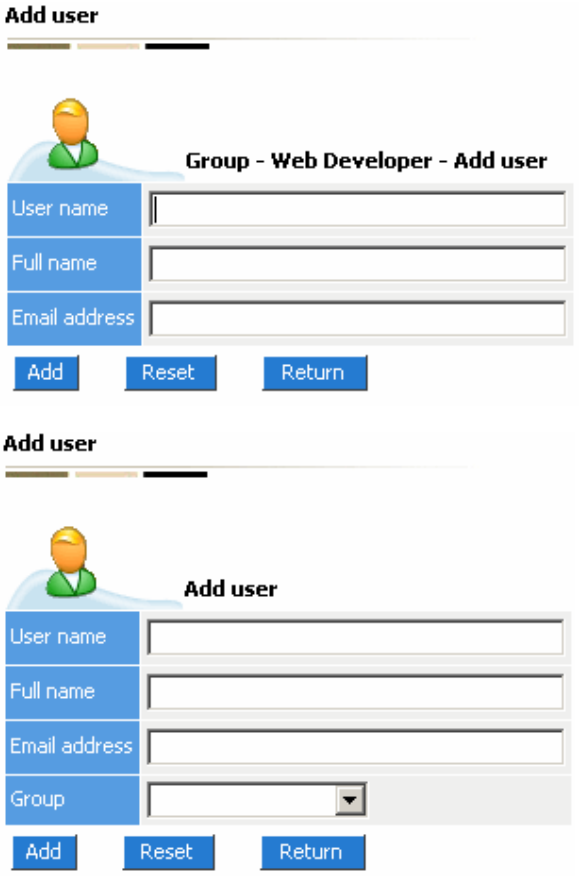


When user is moved to new group, the balance will change.

- Click [Add Balance] to add balance for all users. The balance can be negative.

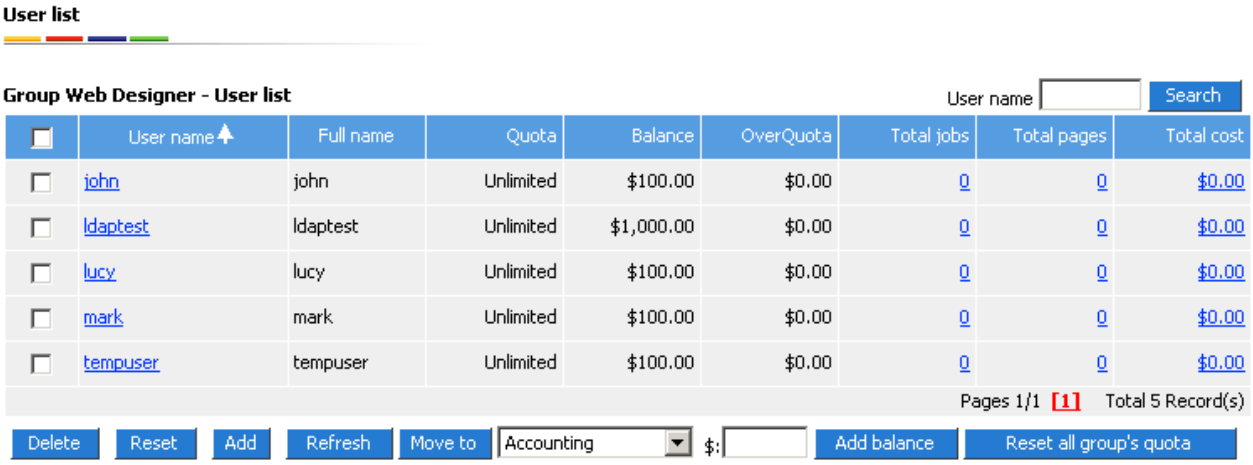
- Click [Reset all user balance] to enter Reset all users balance page.
- Click table heading such as user name, full name, quota, current balance, overdraft upper limit, total tasks, total pages and total charges to sort items in ascending or descending.
- Click user name link to setup user properties.
- Click total tasks, total pages, total charges to enter Print Log page.

Add User



- Figure 1 is to add user from user group and figure 2 is to add from whole users.
- Input user added domain account name or computer name (based on Authentication Mode).
- Input Email address to use Email reminding of Print Reminding. User name must be unique.
- [Full name] is used to distinguish users.
- Single user cannot belong to multi-group.
- Click [Add] to add user to group user list. After adding, it will turn to whole group user list.
- Click [Reset] to load default page.
- Click [Back] to return to User List.

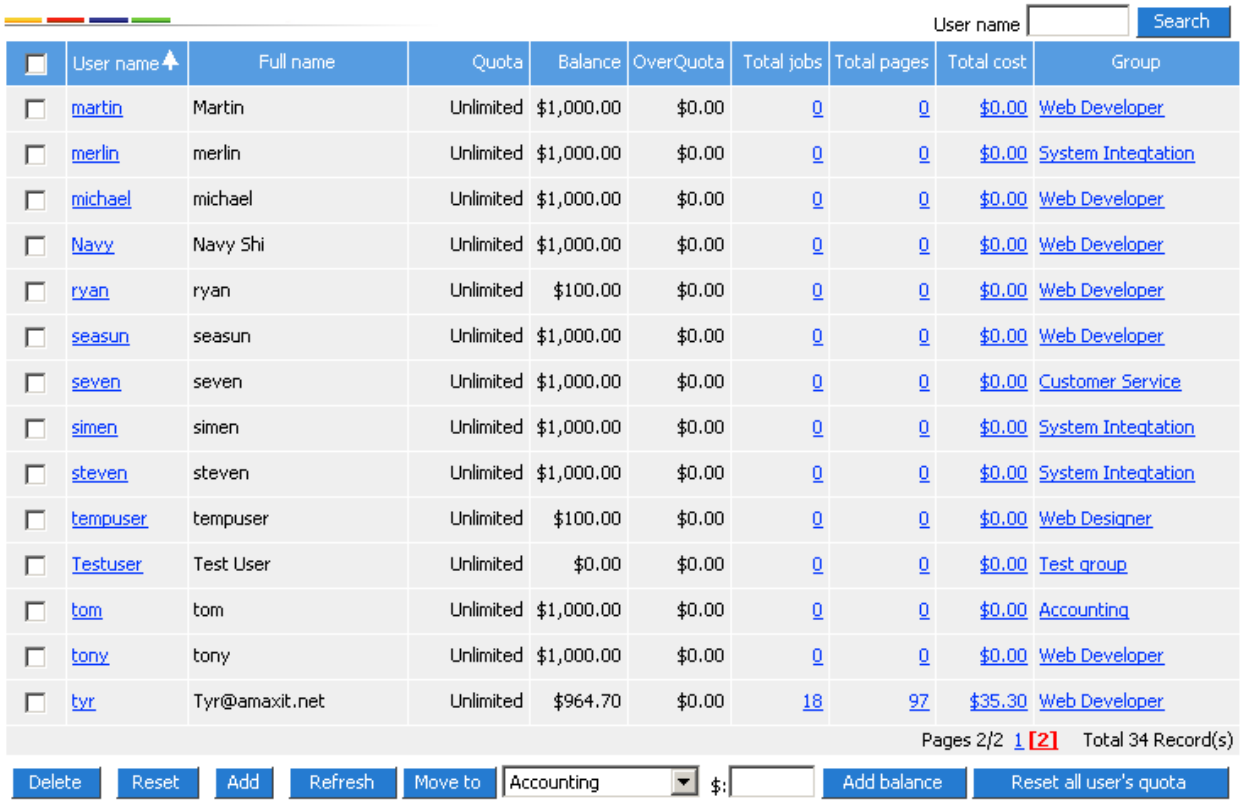
User List



- Click [Remove] to remove selected users. **For Enterprise Version, to remove user will not remove user print content at the same time.**
- Click [Reset] to clear all selection.
- Click [Add] to enter Add User page.
- Click [Refresh] to clear selection and retrieve user list.
- Click [Move to Group] to move selected user to specific group. Refer to Group User List.
- Click [Add Balance] to add balance for all users whether user is selected or not. The balance of user cannot be decreased by negative.
- Click [Reset all user balance] to enter Reset all user balance.
- Click [User name] to enter User Setup page.
- Click total tasks, total pages, total charges link to enter Print Log page.
- Click [Affiliated group] to enter relevant Group setup page.

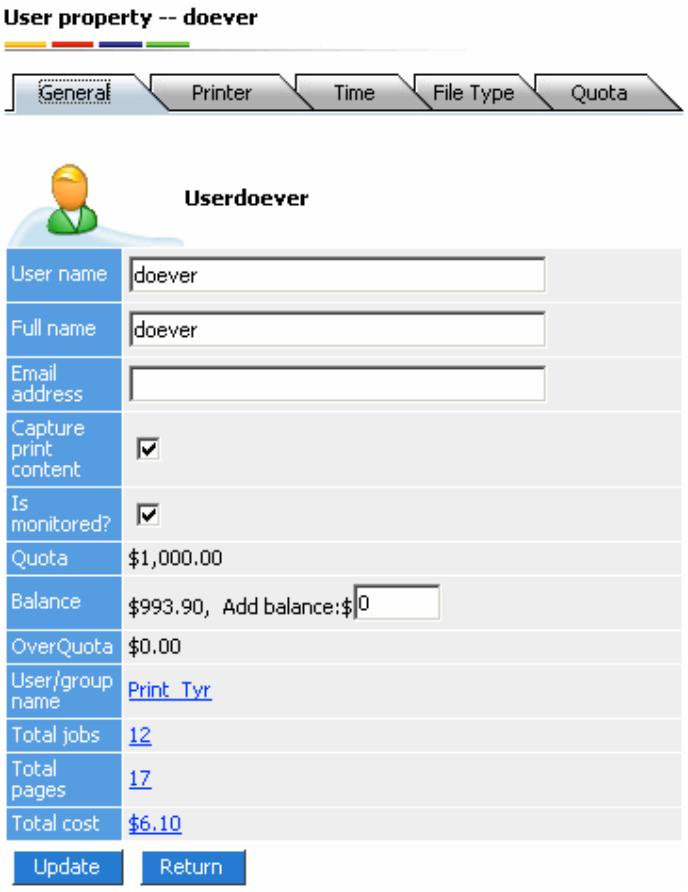
All User List

User list


User name
Search
User name
Full name
Quota
Balance
OverQuota
Total jobs
Total pages
Total cost
Group
martin Martin Unlimited $1,000.00 $0.00 0 0 $0.00 Web Developer
merlin merlin Unlimited $1,000.00 $0.00 0 0 $0.00 System Integation
michael michael Unlimited $1,000.00 $0.00 0 0 $0.00 Web Developer
Navy Navy Shi Unlimited $1,000.00 $0.00 0 0 $0.00 Web Developer
ryan ryan Unlimited $100.00 $0.00 0 0 $0.00 Web Developer
seasun seasun Unlimited $1,000.00 $0.00 0 0 $0.00 Web Developer
seven seven Unlimited $1,000.00 $0.00 0 0 $0.00 Customer Service
simen simen Unlimited $1,000.00 $0.00 0 0 $0.00 System Integation
steven steven Unlimited $1,000.00 $0.00 0 0 $0.00 System Integation
tempuser tempuser Unlimited $100.00 $0.00 0 0 $0.00 Web Designer
Testuser Test User Unlimited $0.00 $0.00 0 0 $0.00 Test group
tom tom Unlimited $1,000.00 $0.00 0 0 $0.00 Accounting
tony tony Unlimited $1,000.00 $0.00 0 0 $0.00 Web Developer
tyr Tyr@amaxit.net Unlimited $964.70 $0.00 18 97 $35.30 Web Developer
Pages 2/2 1 [2] Total 34 Record(s)
Delete
Reset
Add
Refresh
Move to
Accounting
$:
Add balance
Reset all user's quota

- Click [Remove] to remove selected users.
- Click [Reset] to clear all selection without page reloading.
- Click [Add] to enter Add User page.
- Click [Move to Group] to move selected user to specific group. Refer to Group User List.
- Click [Add Balance] to add balance for all users whether user is selected or not. The balance of user cannot be decreased by negative..
- Click [Reset all user balance] to enter Reset all user balance.
- Click total tasks, total pages, total charges link to enter Print Log page.
- Click table heading such as user name, Email address, quota, current balance, overdraft upper limit to sort listed items in ascending or descending .
- Click [Affiliated group] to enter relevant Group setup page.

Configure User Basic Information



- User name: only symbol for user/computer in system.
- Full name: detailed description of the user.
- Email: used for sending reminding email to user.
- Save print content: to save print content or not.
- Monitoring: to record user print information or not. If not, user print will not be recorded in log and charged.
- Quota: user quota.
- Balance: remained charge user can use.
- Overdraft upper limit: max. amount of overdraft such as quota percentage and exceedance.
- User/computer group name: group or department user or computer belongs to.
- Total tasks: printed tasks sum.
- Total pages: printed pages sum.
- Total charges: print charges amount
- Click [Update] to save modified user information.
- Click User/computer group name link to view or change Group Setup.

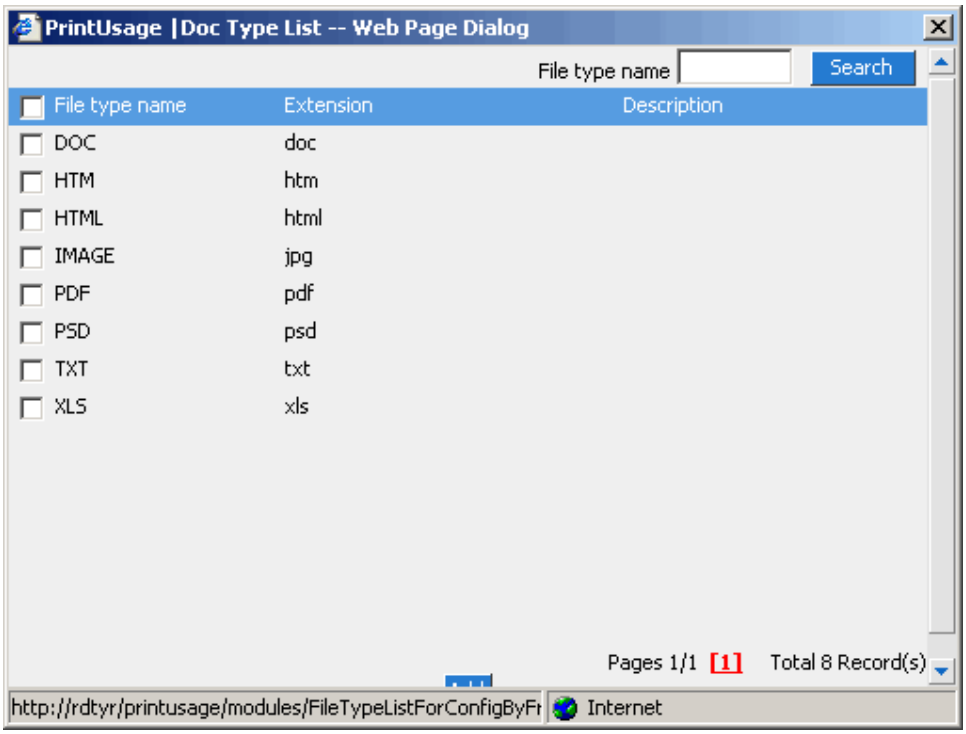
- Click the clickable digits after total tasks, total pages and total charges to view user Print Log, which can be customized.
- If the user data is renewed, the print pages, tasks and charges will be changed. Please refer to Setup-->Data Maintenance.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Configure User File Types

- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in File Type page.
- Inherit group setup:
  - When selected, file type setup will inherit related settings from the group.
  - When unavailable, file type cannot be setup. The option box is unavailable when group has no file type setup.
  - When not selected, file type can be setup individually to cover group settings.
- All file types are authorized: except for those listed.
- All file types are rejected: except for those listed.
- Selection usage of file types:

- Clear group inherit setup to enable [Add]. Click [Add] to display whole file type list.

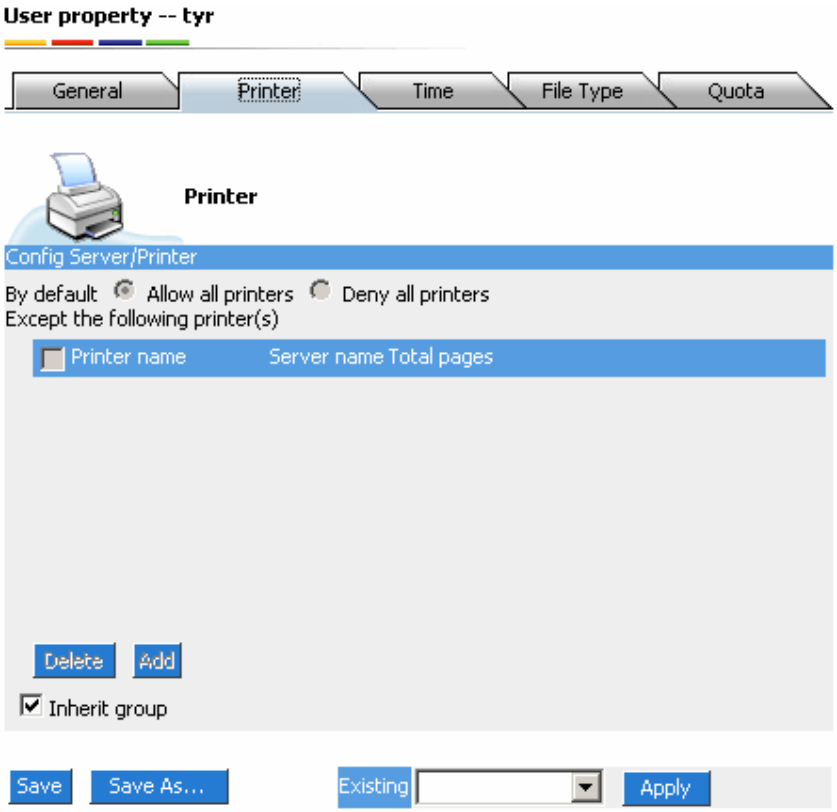


After selection, click [Add]. the display file types in type list of user group properties and then click [Save] to complete.

- File size limit: max upper limit file size in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Page limit: upper limit of page in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Key words limit: to input some special key words such as Resume and Sex to reject the print when file printed is included such words in the name by filtering the file name. The key words should be divided by semicolon (;).
- Charge limit: max upper limit of charge in one print to avoid printer jam or waste during printing large file. Leave blank or input 0 to cancel limit.
- Configuration name: to input a name to save current user configuration for late use.
- Select from existing configuration: to select form existing user configuration.
- Click [Save] to save current User Group configuration.
- Click [Save template as...] to save current User Group configuration.

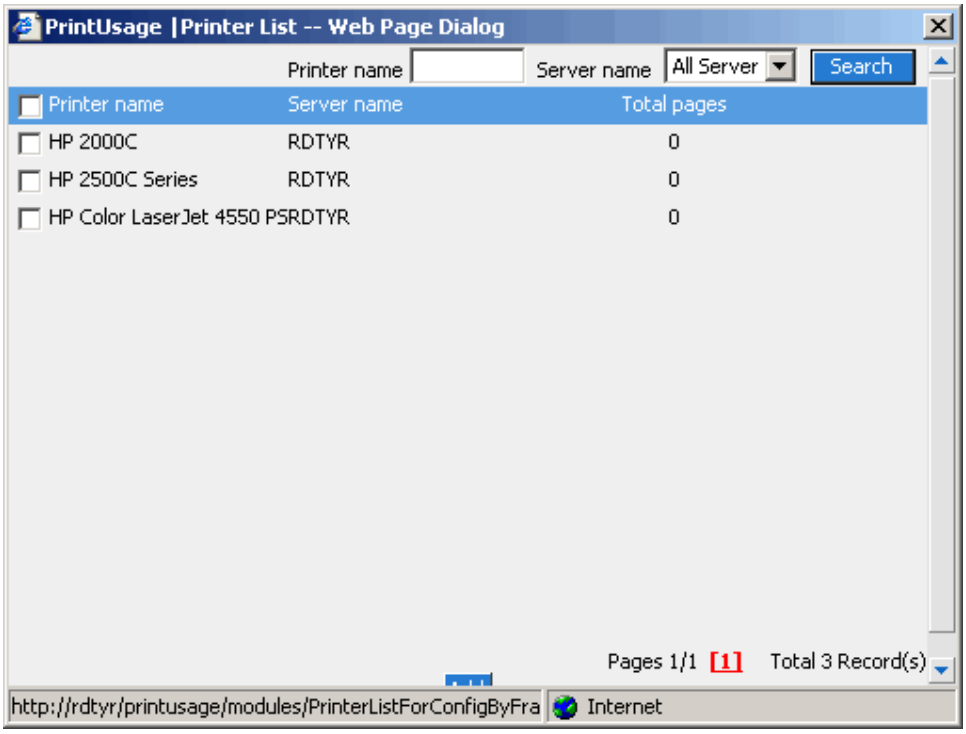
Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Configure User Printer



- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in File Type page.
- Inherit group setup:
  - When selected, printer setup will inherit related settings from the group.
  - When unavailable, printer cannot be setup. The option box is unavailable when group has no printer setup.
  - When not selected, printer can be setup individually to cover group settings.
- All printers are authorized: except for those listed.
- All printers are rejected: except for those listed.
- Selection usage of printer:

- Click [Add] to select printers needed in pop-up dialog box.



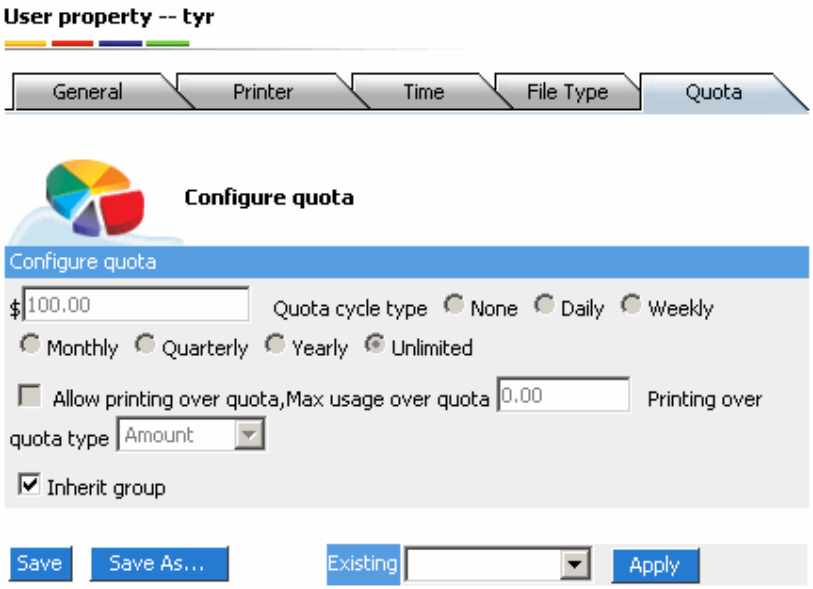
After selection, click [Add]. There display printers in printer list of user group properties and then click [Save] to complete.

- If the user group doesn't use printers listed any more, please select printers and click [Remove] and then [Save].

- Configuration name: input a name to save current user modified information for late use of other user configuration.
- Select from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User configuration.
- Click [Save template as...] to save current User configuration.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User, Print Time, Document Type and Charge can be available.

Configure User Quota

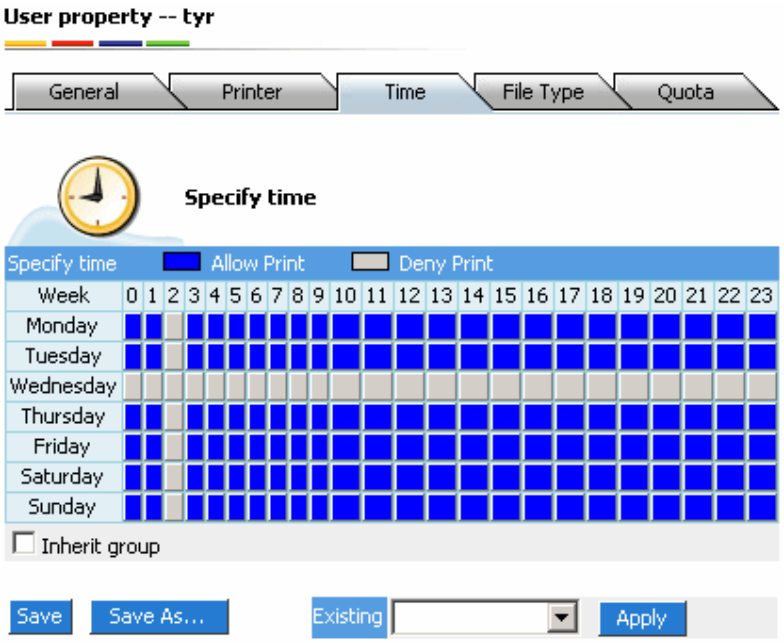


- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in File Type page.
- Inherit group setup:
  - When selected, quota setup will inherit related settings from the group.
  - When unavailable, quota cannot be setup. The option box is unavailable when group has no quota setup.
  - When not selected, quota can be setup individually to cover group settings.
- User quota: available print charge given to user in unit period (day, week, month...).
- Overdraft allowed, upper limit: the value input must be plus. Overdraft allowed, upper limit: the value input must be plus. User can properly overdraft print charge according to overdraft type selection.
- Configuration name: input a name to save current user modified information for late use of other user configuration. ;
- elect from existing configuration: to select form existing User Group configuration.
- Click [Save] to save current User configuration.
- Click [Save template as...] to save current User configuration.
- Click [Reset] to refresh the page.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Settings information can be modified in Setup-->Setup Template Management.

Configure User time

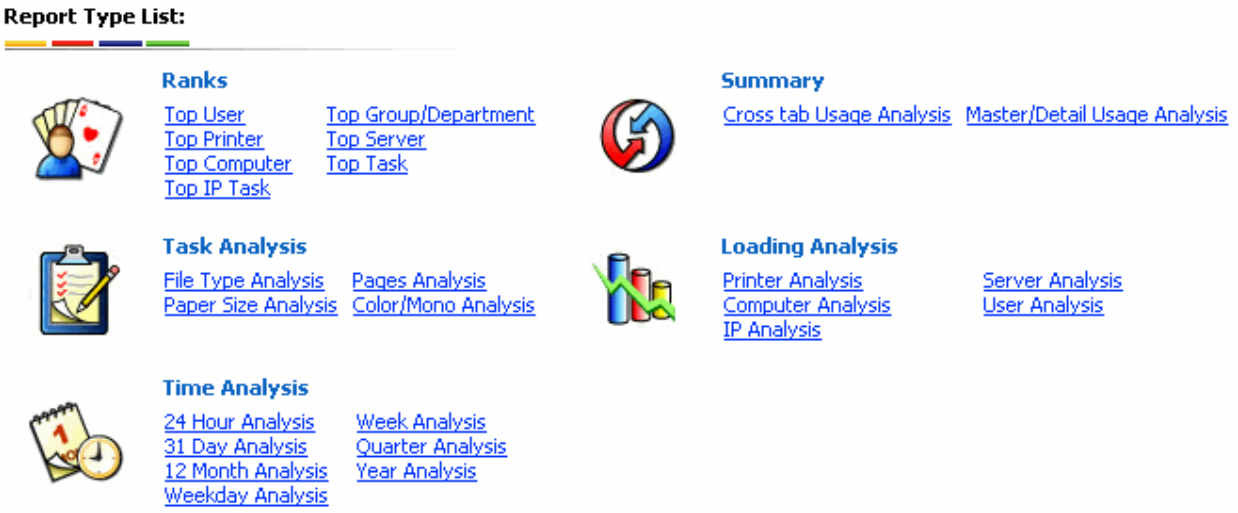


- Setup template name: after user select the existing template and click [Apply], he will see [Setup Template Name]-->[Template Name] in File Type page.
- Inherit group setup:
  - When selected, time setup will inherit related settings from the group.
  - When unavailable, time cannot be setup. The option box is unavailable when group has no time setup.
  - When not selected, time can be setup individually to cover group settings.
- Print allow, print reject: blue refer to allow and grey refer to reject. Two option boxes are available for color selection.
- Detailed settings:
  - To select one column, please click the head of the column. For example, to click digit 3 will select whole column.
  - To select one line, please click the head of the line.
  - To select whole timetable, please click grid of Week.
  - The figure shows that only the time of 3:00 to 3:59 on Wednesday is allowed to print. Other time period is rejected.
- Click [Select from existing templates] to select existing template.
- Click [Save] to save current User Group configuration.
- Click [Save as...] to save a modified configuration as a new one, which can be managed in of Settings of Configuration template management.

Note: Only when Monitor Mode Setting is [Monitoring and Advanced Control], the configuration of User Group Printer, Print Time, File Type, User Quota are available.

Settings information can be modified in Setup-->Setup Template Management.

Report List



1. Ranks

Ranks can be divided by Top User, Top Group/Department , Top Printer, Top Server, Top Computer and Top Task. Top User Ranks. The ranks statistic report according to pages printed, charges, print amount from one user in certain period. It's similar to several other types.

2. Summary

Analyze print jobs by year, month, date or other period. There are two kinds of reports including Cross Tab Usage Analysis and Master/Detail Usage Analysis .

3. Task Analysis

Get the graphic report forms from the number of the printing bytes and printing pages according to the different tasks of the printers. Reports includes File Types Analysis , Pages Analysis , Paper Size Analysis , Color/Mono Analysis and so on.

4. Loading Analysis

Get the loading by servers, printers and users in a certain period according to the user's printing situation, divided into Printer Analysis , Server Analysis , Computer Analysis , User Analysis.

5. Time Analysis

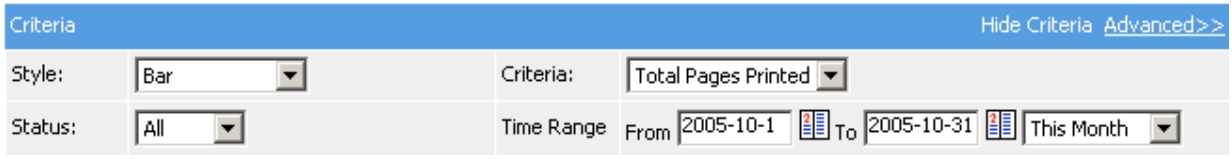
Statistic report based on print time including 24 hour analysis, week analysis , 31 day analysis , quarter analysis, 12 month analysis , yearly analysis and weekday analysis.

Note:

Click on top right corner to hide the type of the report. Click on top right corner to display the type of the report.

Each type includes Simple report and Advanced report to form reports according to needs.

Simple Report



Specification:

Page displays default graphic report according to user default settings. Refer to Advanced Settings for detailed.

Click [Close query condition] to hide report option to expand report visual space.

The simple report is a little different from Summary.

Steps:

1.Style Select List

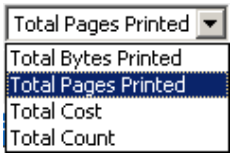
The drop list got under this condition: bar, horizontal, line, pie, point, area.

Default is bar. View/Hide Style Select List

2.Value Display

The drop list got under this condition: total bytes, total printing pages, total printing cost. Default is total pages.

View/Hide Value Display Method



3.Print Status

The drop list got under this condition: all, printed, denied.

Default is all. View/Hide Print Status

4. Time Range

The drop-down list includes custom, year, month, week and day. If choosing custom, you can choose preferred time in time selection box; if choosing year, month, week and day, the time selection box will be unavailable.

Default is current year and month. View/Hide Time Selection

5.Submit

Click the button of "Create a report form", it displays different graphs and content datum according to the different selection of user. Create a graph as Report Model.

Click the button of "Reset", the option back to the last setting.

Click the button of "Print Preview", can preview the current created report form that can be printed by user.

Click the button of "Import" to import report as Excel file.

Click the button of "Return", back to the last submitted page.

6.Advanced Settings

Click this link, the report condition will be complicatedly matched, creating Advanced Report

Note: user can change default value in Report\Type_Top.xml of installation directory. Please read “Advanced Settings” carefully and make backup before modification. You can change report model by changing settings of xml file. Please refer to Advanced—>Report Options

Ranks

1.Top User

Analyze users maximum usage base on user requirement.

2.Top Printer

Analyze printers maximum usage base on user requirement.

3. Top Computer

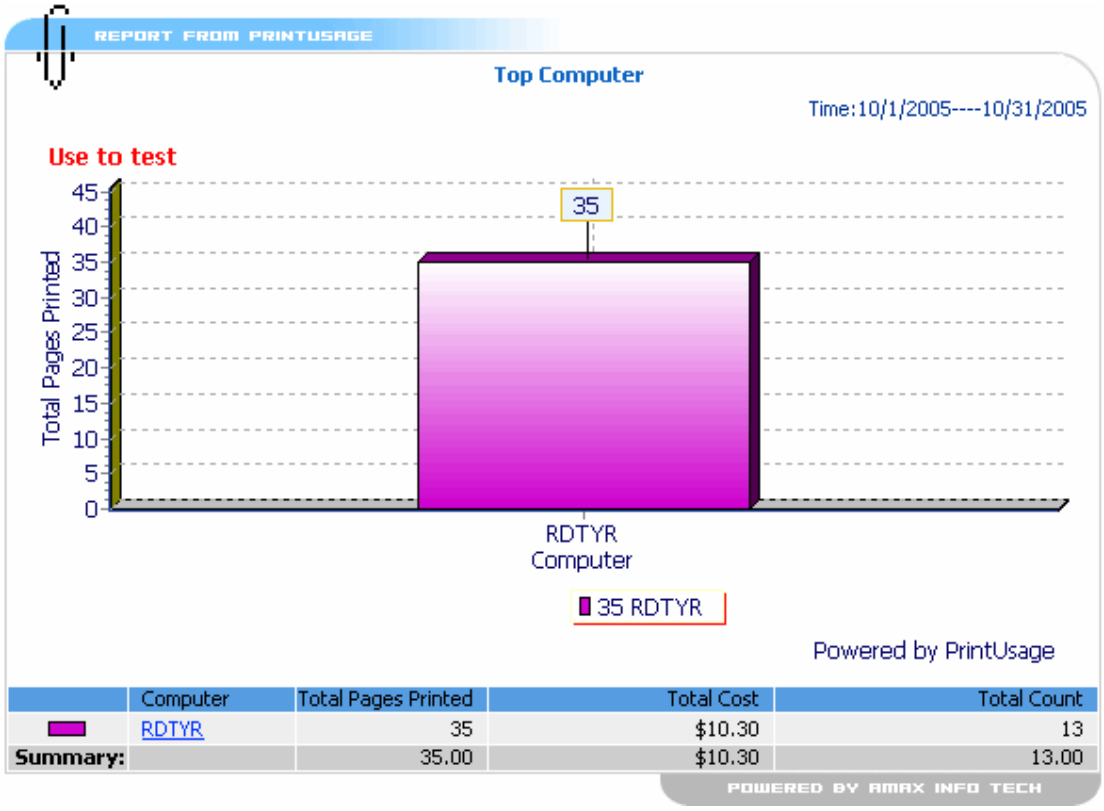
Analyze computers maximum usage base on user requirement.

4. Top Group/Department

Top Computer Ranking

Computer ranking includes computer ranking query and computer ranking report.

Please refer to Simple Report Condition for computer ranking query.



Click on computer name to display statistic of each computer.

Report Date: 10/13/2005 4:00:26 PM

Computer:RDTYR

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	3.00	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	0.50	DOEVER	doever

Specification:

Page shows 10 most usage computers in descending order.

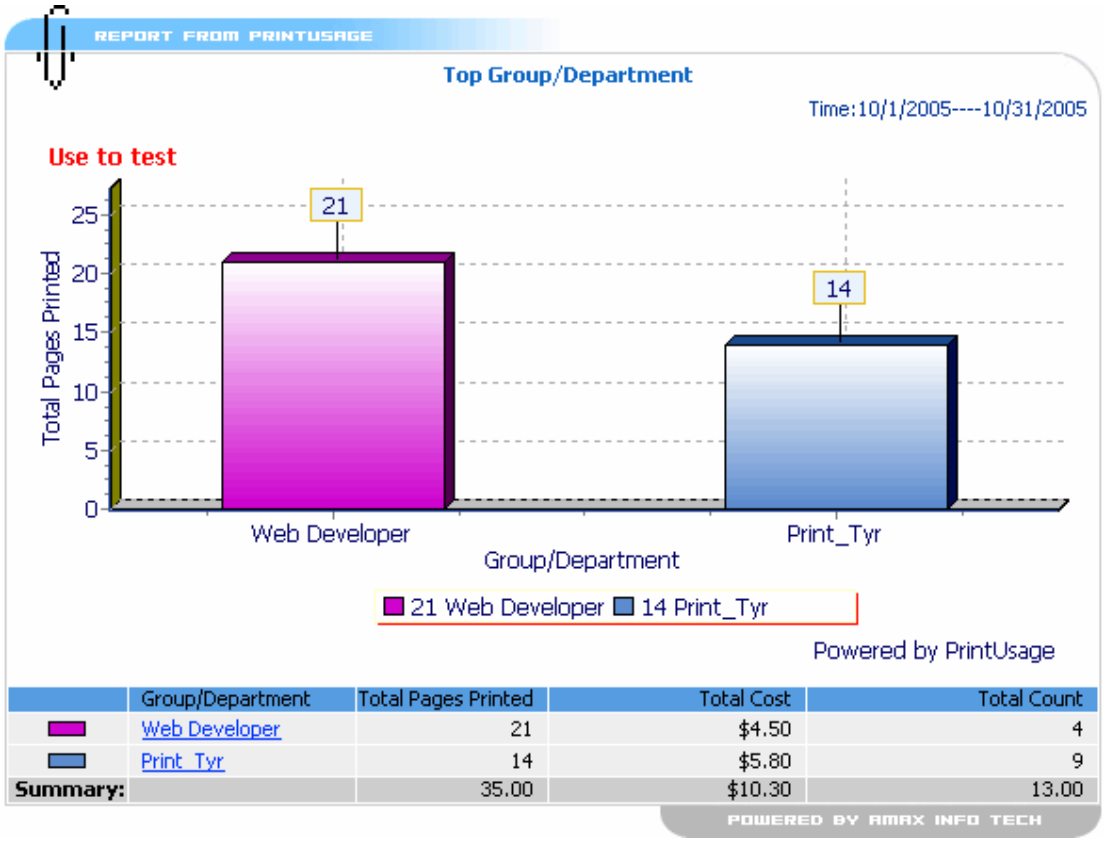
Click on computer name to view statistic with **satisfying statistic conditions of ranking report**, including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make backup before making modification.

Top Group/Department Ranking

Group/department ranking includes Group/department ranking query and Group/department ranking report.

Please refer to Simple Report Condition for Group/department ranking query.



	Group/Department	Total Pages Printed	Total Cost	Total Count
	Web Developer	21	$4.50	4
	Print_Tyr	14	$5.80	9
Summary:		35.00	$10.30	13.00

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Click on group/department name to display detail statistic information.

Report Date: 10/13/2005 4:02:40 PM

Group/Department:Web Developer

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	0.30	TYR	Tyr@amaxit.net
			21		3,237	4.50		

Specification:

Page shows 10 most usage group/department in descending order.

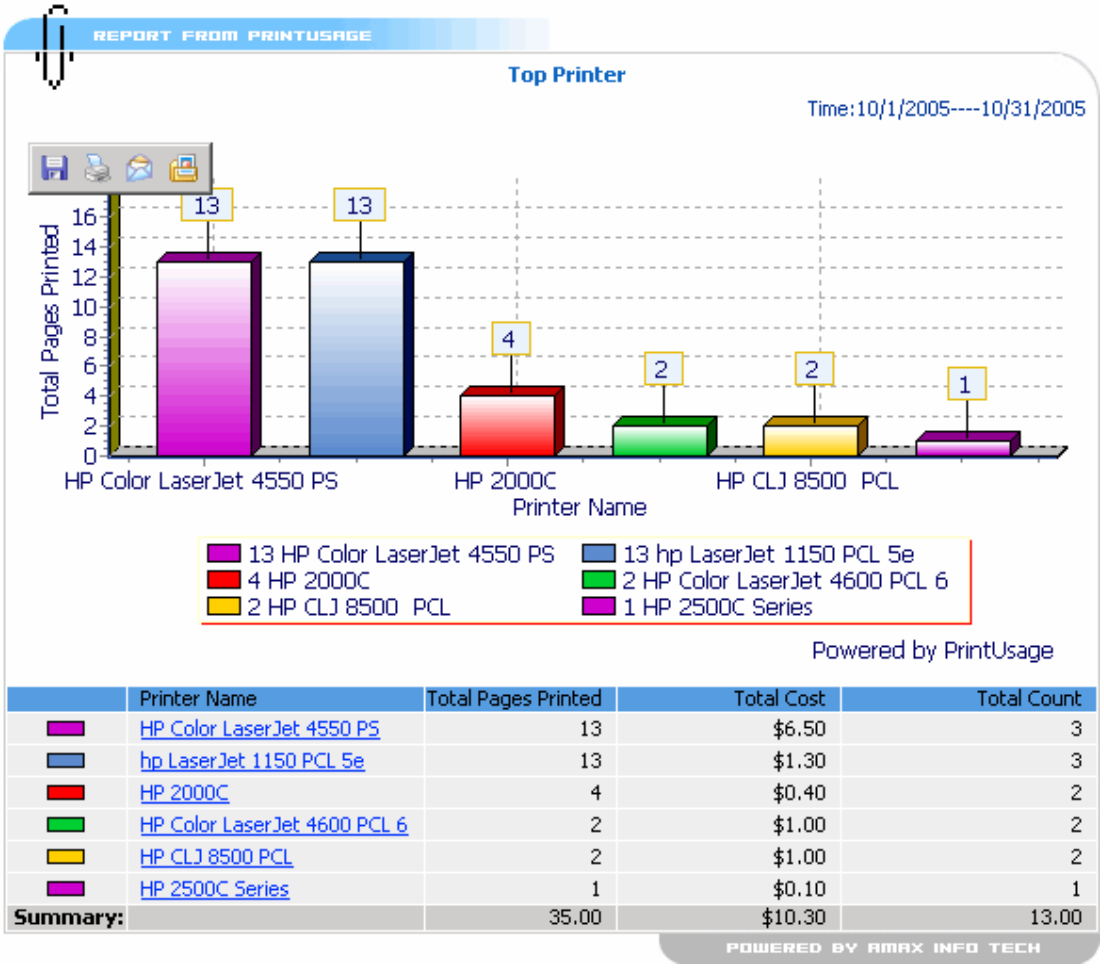
Click on group/department name to display statistic with **satisfying statistic conditions of ranking report**, including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make backup before making modification.

Top Printer Ranking

Printer ranking includes printer ranking query and printer ranking report.

Please refer to Simple Report Condition for printer ranking query.



	Printer Name	Total Pages Printed	Total Cost	Total Count
	HP Color LaserJet 4550 PS	13	$6.50	3
	hp LaserJet 1150 PCL 5e	13	$1.30	3
	HP 2000C	4	$0.40	2
	HP Color LaserJet 4600 PCL 6	2	$1.00	2
	HP CLJ 8500 PCL	2	$1.00	2
	HP 2500C Series	1	$0.10	1
Summary:		35.00	$10.30	13.00

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Click on printer name to display detail statistic.

Report Date: 10/13/2005 4:05:14 PM
Printer Name:hp LaserJet 1150 PCL 5e

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	0.10	DOEVER	doever
			13		995	1.30		

Specification:

Page shows 10 most usage printers in descending order..

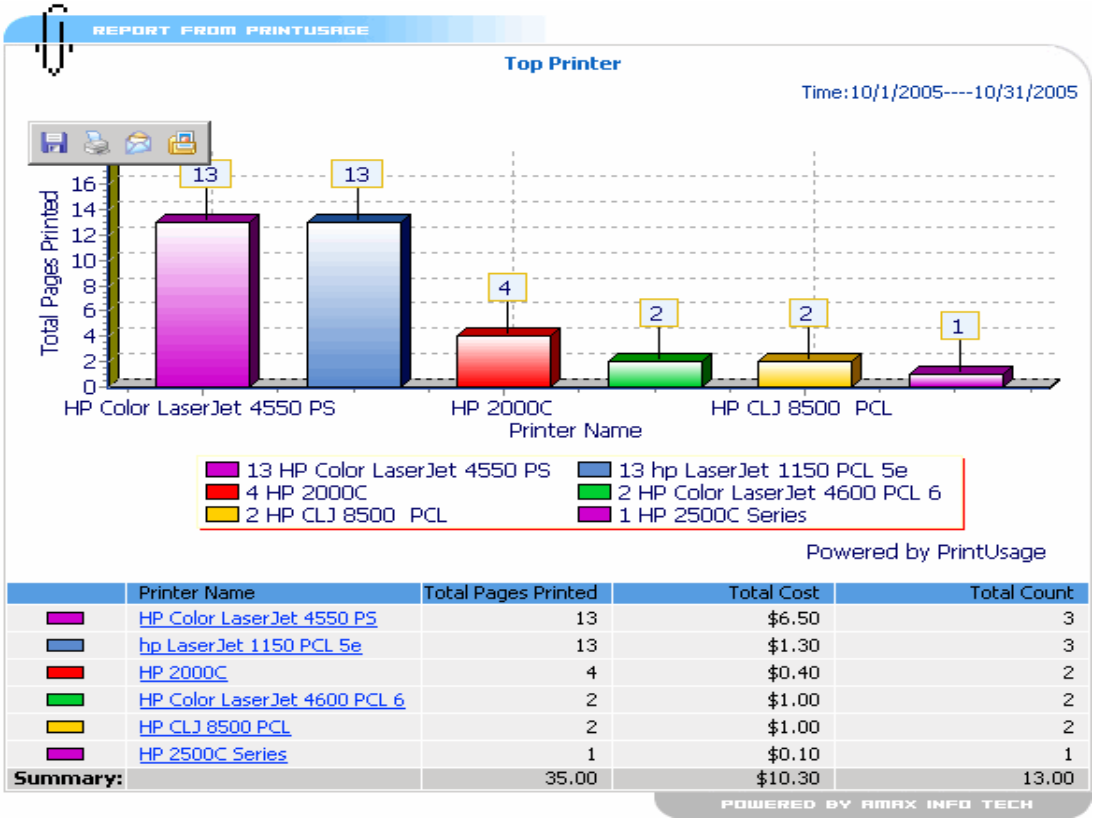
Click on printer name to display statistic with **satisfying statistic conditions of ranking report**, including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make backup before making modification.

Top Print Server Ranking

Print server ranking includes print server ranking query and print server ranking report.

Please refer to Simple Report Condition for print server ranking query.



	Printer Name	Total Pages Printed	Total Cost	Total Count
	HP Color LaserJet 4550 PS	13	$6.50	3
	hp LaserJet 1150 PCL 5e	13	$1.30	3
	HP 2000C	4	$0.40	2
	HP Color LaserJet 4600 PCL 6	2	$1.00	2
	HP CLJ 8500 PCL	2	$1.00	2
	HP 2500C Series	1	$0.10	1
Summary:		35.00	$10.30	13.00

POWERED BY AMAX INFO TECH

Click on server name to display statistic of each printer.

Report Date: 10/13/2005 4:05:14 PM
Printer Name:hp LaserJet 1150 PCL 5e

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	0.10	DOEVER	doever
			13		995	1.30		

Specification:

Print server is a managed computer after installing printer and print monitor service.

Monitoring server and print server are two different meanings. Of hardware, print-monitoring server is a computer, but print server is a king of hardware configuration; of software, monitoring server installed print monitoring software, but print server din't install any programs related with print monitor.

Page displays top 10 servers printing most and in order from most to least.

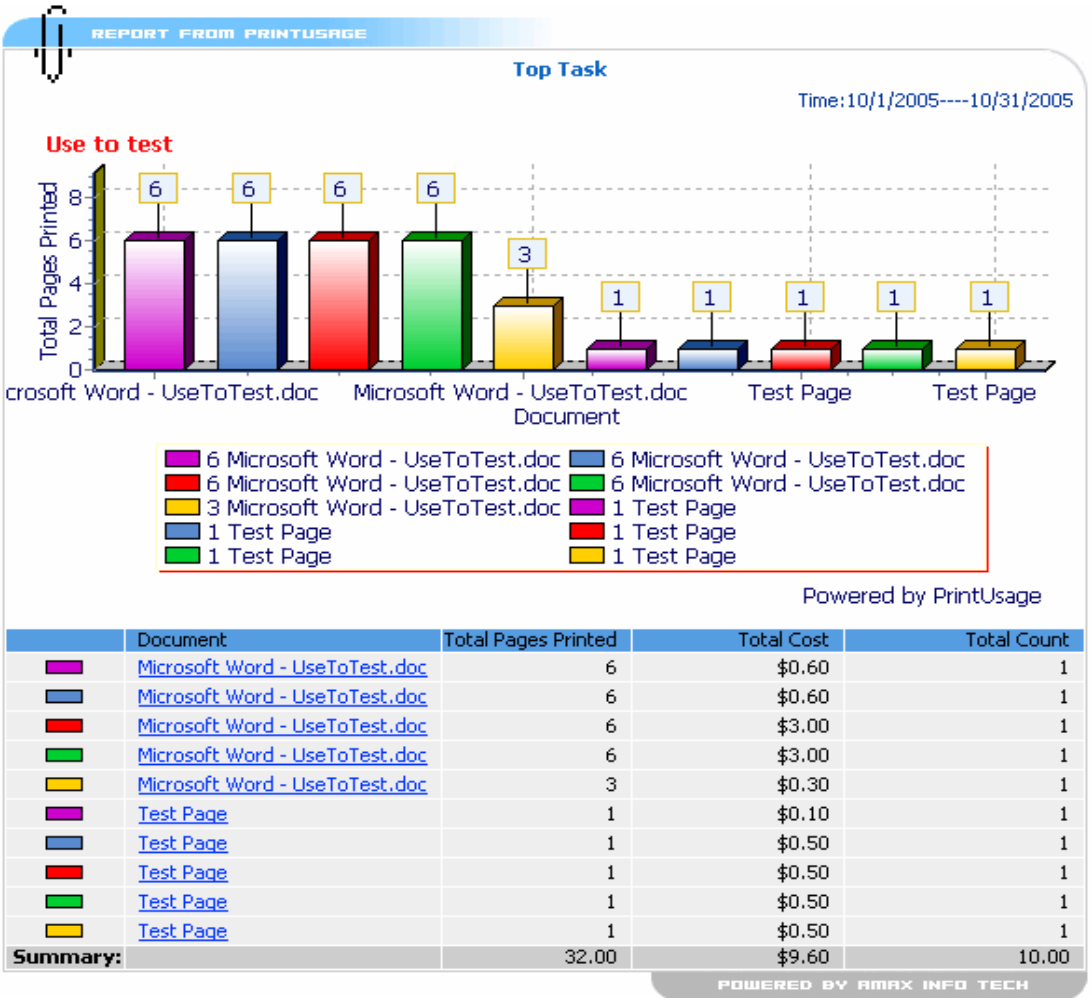
Click server name to view statistic information **satisfying statistic conditions of ranking report**, including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml of installation directory. Please read “Advanced Settings” carefully and make backup before modification.

Top Task Ranking

Task ranking includes user ranking query and user ranking report.

Please refer to Simple Report Condition for user ranking query.



	Document	Total Pages Printed	Total Cost	Total Count
	Microsoft Word - UseToTest.doc	6	$0.60	1
	Microsoft Word - UseToTest.doc	6	$0.60	1
	Microsoft Word - UseToTest.doc	6	$3.00	1
	Microsoft Word - UseToTest.doc	6	$3.00	1
	Microsoft Word - UseToTest.doc	3	$0.30	1
	Test Page	1	$0.10	1
	Test Page	1	$0.50	1
	Test Page	1	$0.50	1
	Test Page	1	$0.50	1
	Test Page	1	$0.50	1
Summary:		32.00	$9.60	10.00

POWERED BY AMAX INFO TECH

Click on user name to display detail statistic.

Report Date: 10/20/2005 2:11:29 PM
User:TYR

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
Total Count 4			21		3,237	$4.50		

Specification:

Page shows 10 most usage printing user in descending order.

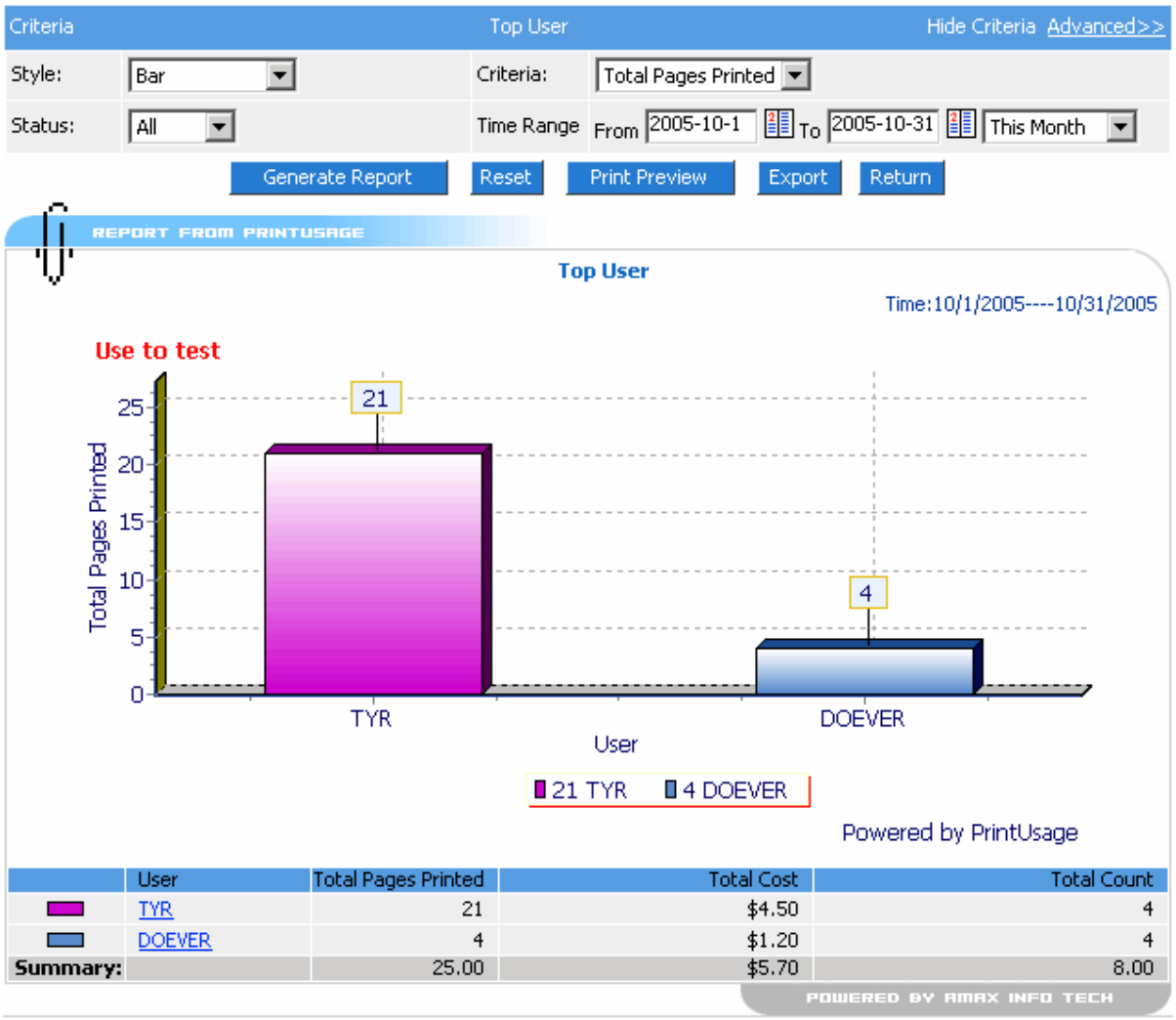
Click on user name to view statistic with **satisfying statistic conditions of ranking report**, including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make backup before making modification.

Top User Ranking

User ranking includes user ranking query and user ranking report.

Please refer to Simple Report Condition for user ranking query.



Click on user name to display detail statistic.

Report Date: 10/20/2005 2:11:29 PM
User:TYR

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
Total Count 4			21		3,237	$4.50		

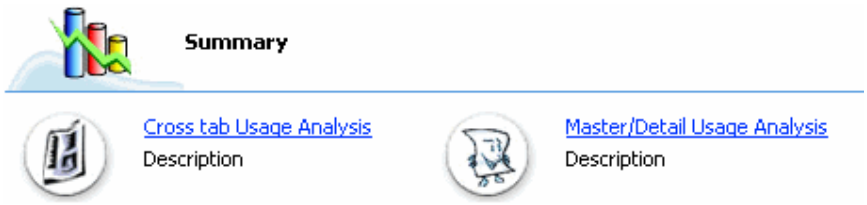
Specification:

Page shows 10 most usage user print shown in descending order..

Click on user name to view statistic with **satisfying statistic conditions of user ranking report**, including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make backup before modification.

Summary



1.Cross tab Usage Analysis

Base on your searching condition, get statistic report by year, month, and date.

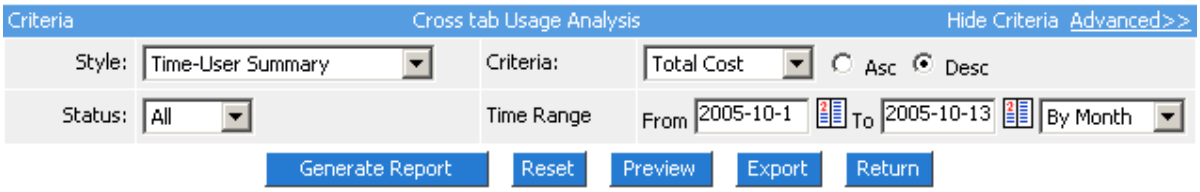
2.Master/Detail Usage Analysis

Base on your searching condition, ranking series and ranking orientation, get statistic report within different category. If report includes department and department's members, it can also display department usage and department's members usage separately.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings carefully and make backup before modification.

Cross tab Usage Analysis

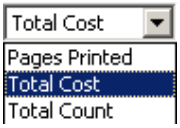
Cross tab Usage analysis includes Query Condition and Report Generation.



Cross tab usage report can be view by style list, data displaying method, print status, time range, sort type.

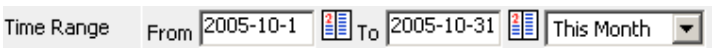
Style List : setup report style:

Data displaying method: setup basic of report display, which is sorted by cost, pages total prints:



Print Status: setup data displaying condition. If choosing denied, all denied print would be displayed.

Time Range: setup time period of query.



Generate Report

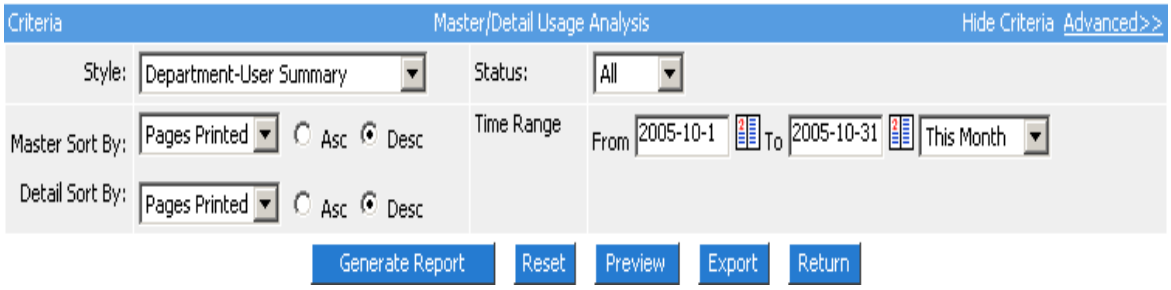
	10M	Subtotal:
TYR	$4.50	$4.50
DOEVER	$1.20	$1.20
Summary:	**$5.70**	**$5.70**

First line displays time period user selected and first column displays user ID, which could clearly reflect user print of every month.

Subtotal is a general statistics according to user's query.

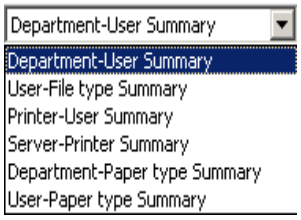
Master/Detail Usage Analysis

Master/Detail Usage analysis includes Master/Detail Report Query Condition and Master/Detail Report Generation



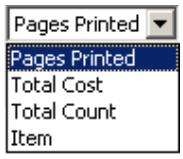
Master/detail usage report can be view by style list, print status, master report sort, time range, and detail report sort.

Style List : setup report style:



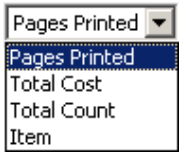
Print Status: setup data displaying condition. If choosing denied, all denied print would be displayed.

Master report sort: setup sort type for master report



Time range: set time period of query

Detail report sort: set user print charge type



Generate report to display user's print

	10M	Subtotal:
TYR	$4.50	$4.50
DOEVER	$1.20	$1.20
Summary:	**$5.70**	**$5.70**

Relevant operation:

1.Generate Report

Choose report style. This list can be added or reduced by users randomly. See Report Setting for detail. Default is the first one in the list. Then choose other conditions. If not choose, all items are default ones. The time range is: "month statistic", then, click "Creating report" button, detail information will be shown below:

If the visual space is too small, click the above "close finding condition", the finding condition was hidden and enlarges the visual space.

2.Report Preview

When previewing report, can be previewing the present created report, also can be previewing the newly created report according to new conditions.

If preview the existing report, click "preview" button. If preview newly created report, first choose report condition. The operating is the same as "creating report", but the difference is to click "preview" button not "creating report" button.

3.Report Export

If to re-edit report data, can export the report to Excel. Only to choose condition or the present condition, then, click "export" button. The interface skip to "file save as" page. Click to open the file directly. Right click to choose "save as", can save the report-exporting file as the local file and edit it randomly. At present, the format of report exporting only is xls format of Excel.

Note: According to user's choosing the unlimited value of N, can process setting(Advanced Setting)through INI file.

If users want to modify report style, can go to the style directory in the report folder to modify XML(XML Specification)

```
<Root>
<CrossTab ID="Style1">
<StyleName>StyleName1</StyleName>
<ColumnType>M</ColumnType>
<RowType>GroupName</RowType>
<RecordPerPage>0</RecordPerPage>
<Table>
<BorderWidth>1</BorderWidth>
<BorderColor>black</BorderColor>
<Width>100%</Width>
</Table>
<Guard>
<MaxValue>0</MaxValue>
<BgColor>red</BgColor>
<FontColor>white</FontColor>
<FontSize></FontSize>
<FontStyle>3</FontStyle>
</Guard>
<Title>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>14pt</FontSize>
<FontStyle>1</FontStyle>
</Title>
<Head>
<BgColor></BgColor>
<FontColor>black</FontColor>
<FontSize>12pt</FontSize>
<FontStyle>1</FontStyle>
</Head>
<Left>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
</Left>
<Main>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
<AlternateBgColor>#EEEEEE</AlternateBgColor>
<AlternateFontColor></AlternateFontColor>
<AlternateNum>5</AlternateNum>

</Main>
```

<Summation>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>1</FontStyle>
</Summation>
<SubTotal>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
</SubTotal>
<Query>
<StartDttm></StartDttm>
<EndDttm></EndDttm>
<Status></Status>
<Filter></Filter>
</Query>
</CrossTab>

</Root>

1.Costant specification

ID stands for the only mark of cross tab
StyleName stands for the name of cross tab
RowType stands for the showing data type on the left of the list. It can be all the existing fields such as User: user, Group: group/department etc.
ColumnType stands for the showing data type over the list. There are three kinds: Y stands for year; M stands for month; D stands for day; W stands for week; Q stands for Quarter.

MaxValue stands for the maximal value

Headr stands for the top of the list.
Left stands for the left of the list
Main stands for data showing district
Summation stands for total
SubTotal stand for subtotal

AlternateBgColor stands for the alternating background color. Default is blank.
AlternateFontColor stands for the alternating font color. Default is blank.
AlternateNum stands for the alternating record number.

FontColor stands for front color. Default is blank.
BgColor stands for background color of font. Default is blank.
FontSize stands for font size
FontStyle stands for font style. 0 is normal, 1 is bold, 2 is italic, 3 is bold italic.

RecordPerPage stands for record number per page. 0 stands for showing all the records.

2.Related Settings

Path to XML file: in the Report directory in installation directory, if it is the cross report, the directory is CrossTab. If it is the principal and subordinate report, the directory is MasterDetail. When modify XML, only modify Config. xml in the current directory.

If the above file was updated, it will take effective next time open the program, i.e. when open the report next time, the new setting will be applied.

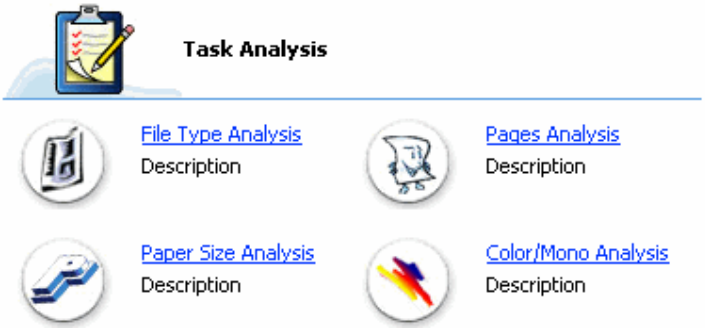
If you modify the above setting, it will not be effective immediately. There must be a chs_Report.ini in the installation directory.

[Report_CrossTab]
Style1=Month-department statistic
Style2=Monthe-user statistic

[Report_MasteDetail]
Style1=Department-user statistic
Style2=User-file type statistic
Style3=Server-printer statistic

If it is the cross report, modify "Report_CrossTab". If it is principal and subordinate report, modify "Report_MasterDetail". If a principal and subordinate report is added, add a line of "Style4=XXXXX" under Report_MasterDetail. Please pay attention to that here "Style4" must accord with the added ID number by user, otherwise it is no effective. Finally, the naming rule for "XXXX" is "ColumnType-RowType" statistic in setting.

Task Analysis



1.File Type Analysis

Analyze print by document type. For example, doc, txt, wps.

2.Pages Analysis

Analyze print by total page print out. For example, one to three pages, four to six pages.

3.Paper Size Analysis

Analyze print by paper size.

4.Color/Mono Analysis

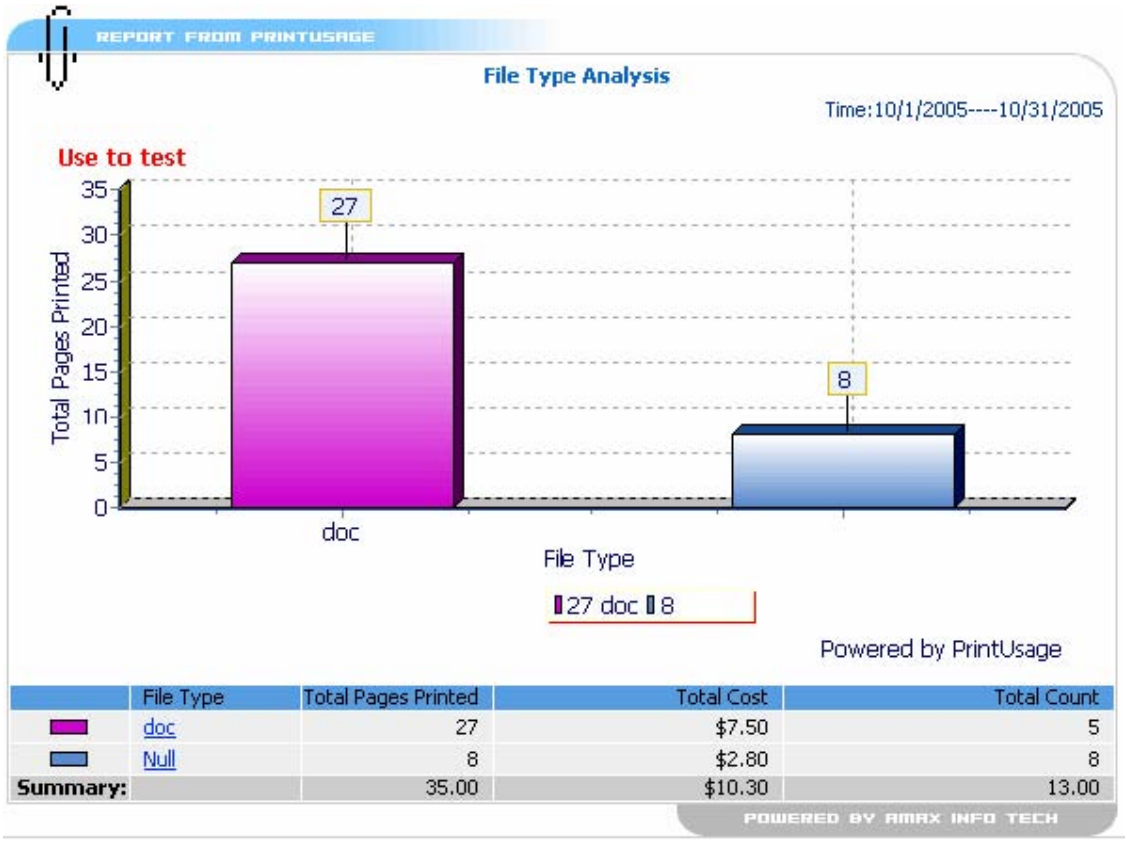
Analyze print by print color type.

Notice User can modify default value from Report\Report_Top_User\Config.ini. Please refer Advance Setting and backup before making modification.

File Type Analysis

Report with different file type.

User can refer to Simple Report Condition



	File Type	Total Pages Printed	Total Cost	Total Count
	doc	27	$7.50	5
	Null	8	$2.80	8
Summary:		35.00	$10.30	13.00

POWERED BY AMAX INFO TECH

Click on document type to get statistic of each document type. By clicking on doc to display information of all .doc printed files.

Report Date: 10/13/2005 2:55:00 PM
File Type:doc

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
Total Count 5			27		3,821	$7.50		

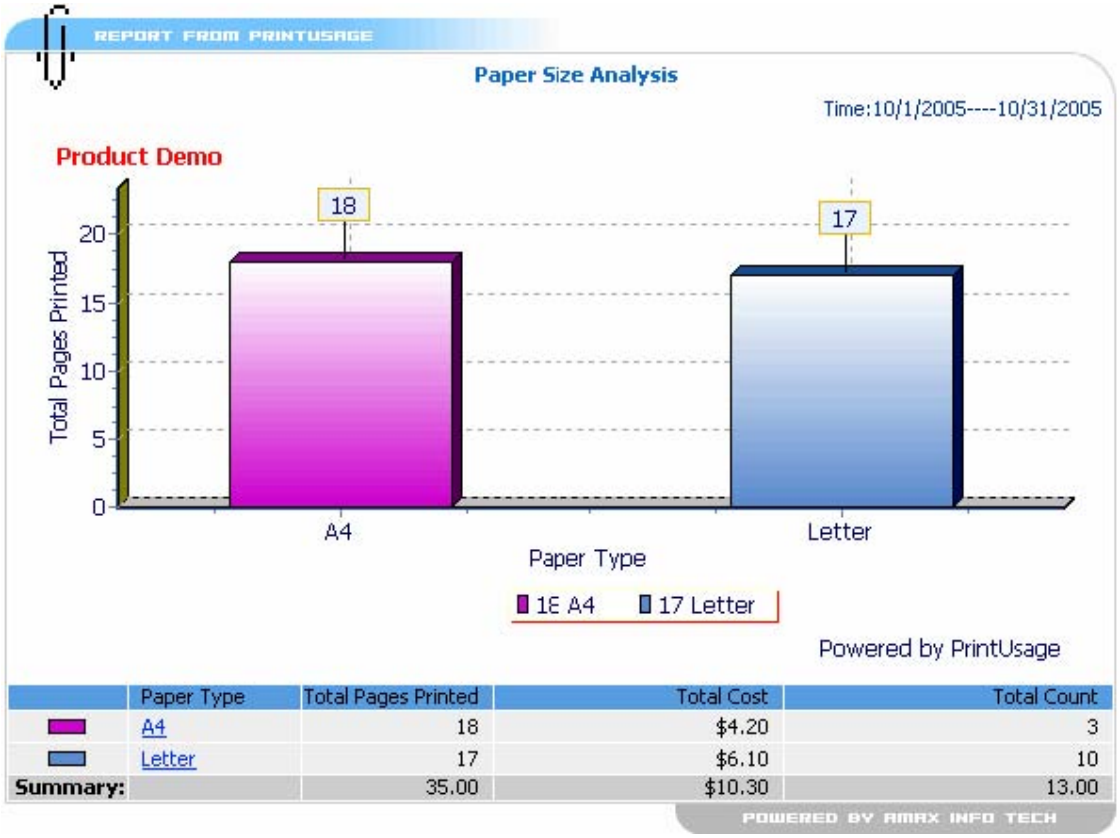
Page shows 10 most usage document types in descending order.

Click on document type to get its statistic information with **statistical conditions.** It displays all related printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from R eport\Report_FileType\Config.ini. Please refer" advanced setting" and backup before making modification.

Paper Size Analysis

Paper size statistic report is created by inquiry and page format.



	Paper Type	Total Pages Printed	Total Cost	Total Count
	A4	18	$4.20	3
	Letter	17	$6.10	10
Summary:		35.00	$10.30	13.00

POWERED BY AMAX INFO TECH

Click on paper size to get statistic by papers size. By click onA4 to display statistical information of A4 papers.

Report Date: 10/13/2005 2:57:03 PM

Paper Type:A4

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
Total Count 3			18		1,522	$4.20		

Specification:

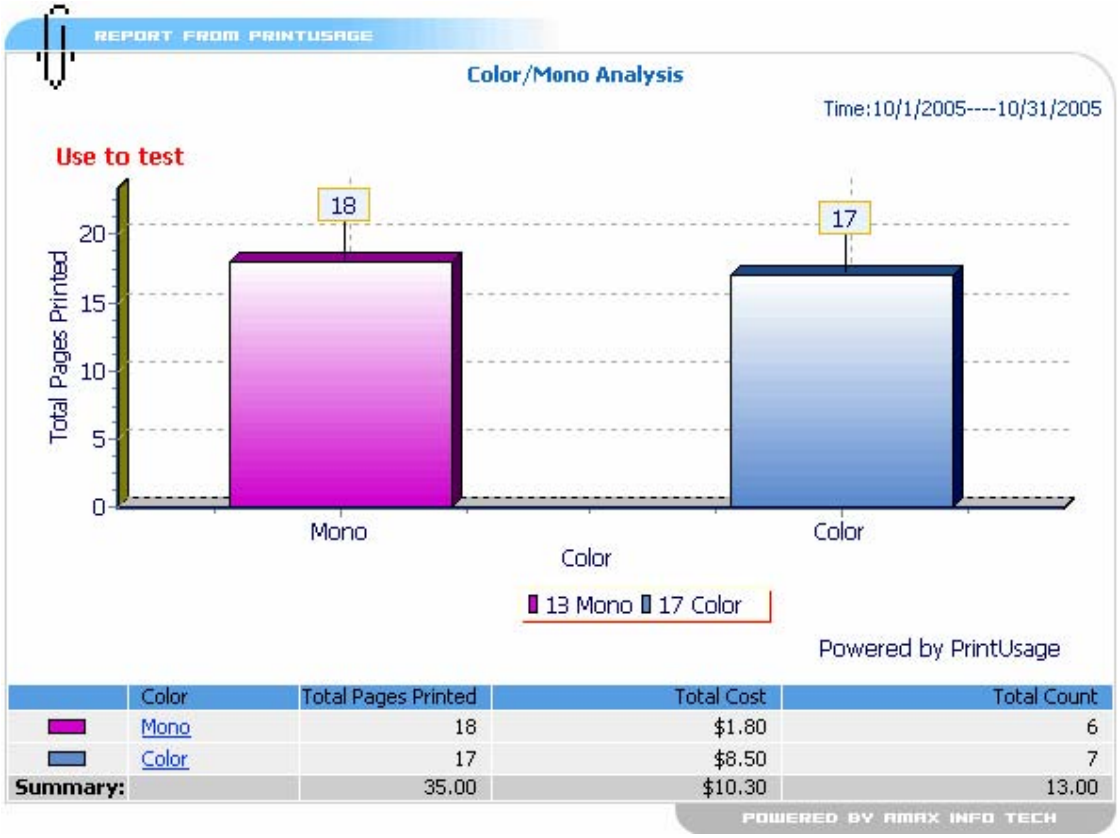
The page displays all different paper types, statistic report with total bytes, total pages, total printed bytes, total printed pages, printing times.

Click on paper type to get related statistical information with different paper type **statistical conditions**. It displays related printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from R eport\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Color/Mono Analysis

Printed color statistical report createdby inquiry and report forming.



	Color	Total Pages Printed	Total Cost	Total Count
	Mono	18	$1.80	6
	Color	17	$8.50	7
Summary:		35.00	$10.30	13.00

POWERED BY AMAX INFO TECH

Click on color to display statistical information by color type. By click black and white to display statistical information of all black and white printing task.

Report Date: 10/13/2005 2:59:07 PM

Color:C

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	$0.50	DOEVER	doever
Total Count 7			17		1,328	$8.50		

Specification:

The page displays all printing by colors, graphical chart with total bytes, total pages, total printed bytes, total printed pages, printing times.

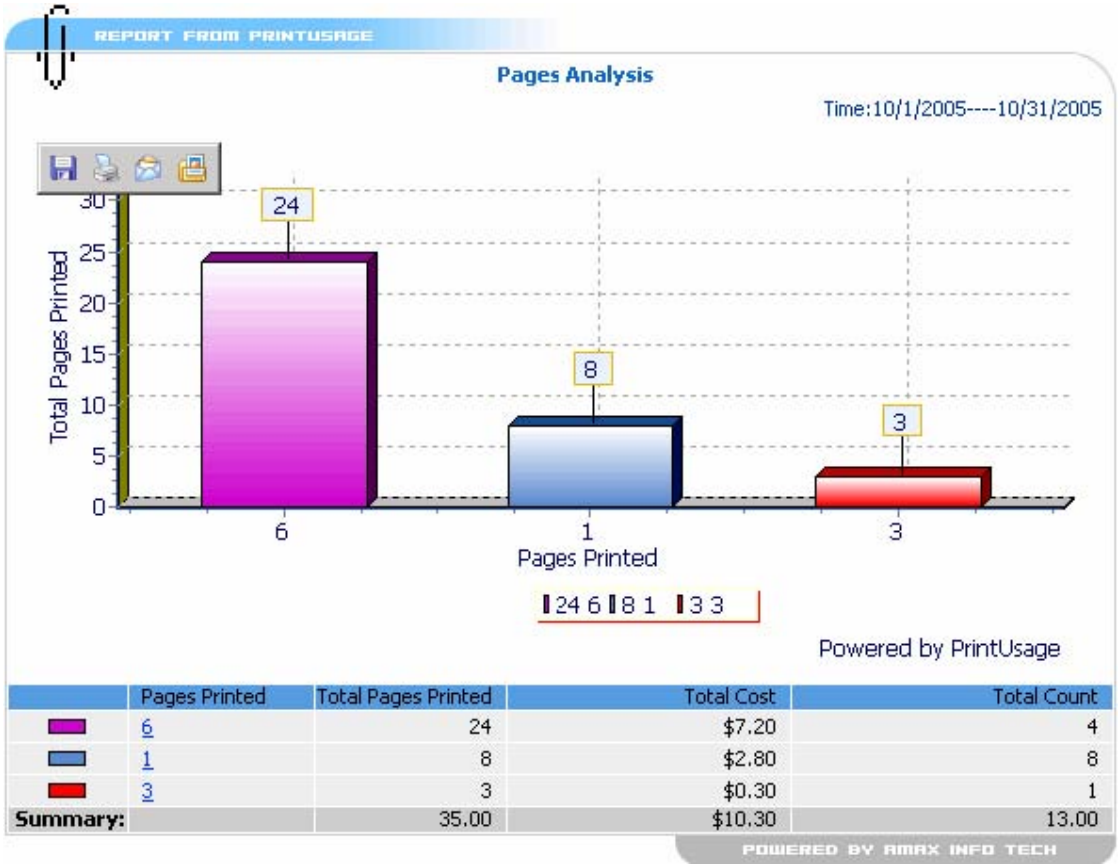
Click on color types to get information of different printing color type **statistical conditions**. It displays related printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from R eport\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Pages Analysis

Printed Page Analysis Report is created by inquiry and report form

User can refer to Simple Report Condition



	Pages Printed	Total Pages Printed	Total Cost	Total Count
	6	24	$7.20	4
	1	8	$2.80	8
	3	3	$0.30	1
Summary:		35.00	$10.30	13.00

POWERED BY AMAX INFO TECH

Click on pages printed to display statistical information of all different total pages printed out.

Report Date: 10/13/2005 3:01:33 PM

Pages Printed:6

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
Total Count 4			24		2,106	$7.20		

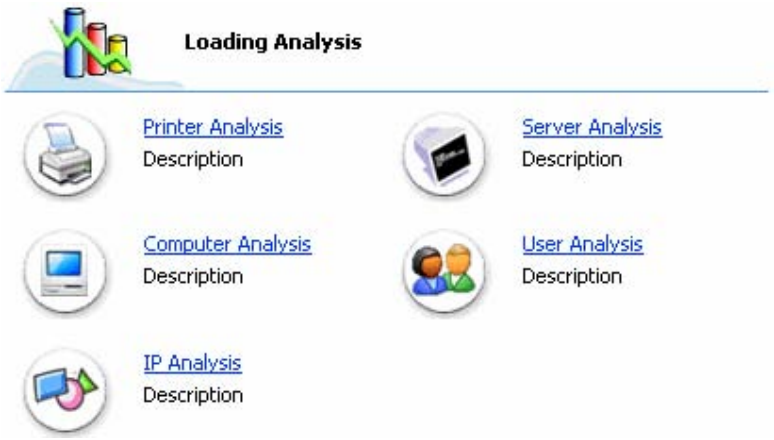
Specification:

Page shows 10 most pages print in descending order.

Click on printed pages to get related statistical information with **statistical conditions.** It displays related printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Loading Analysis



1.Printer Analysis

Analyzing printing status by printer.

2.Server Analysis

Analyzing printing status by printer server.

3.Computer Analysis

Analyzing printing status by computer.

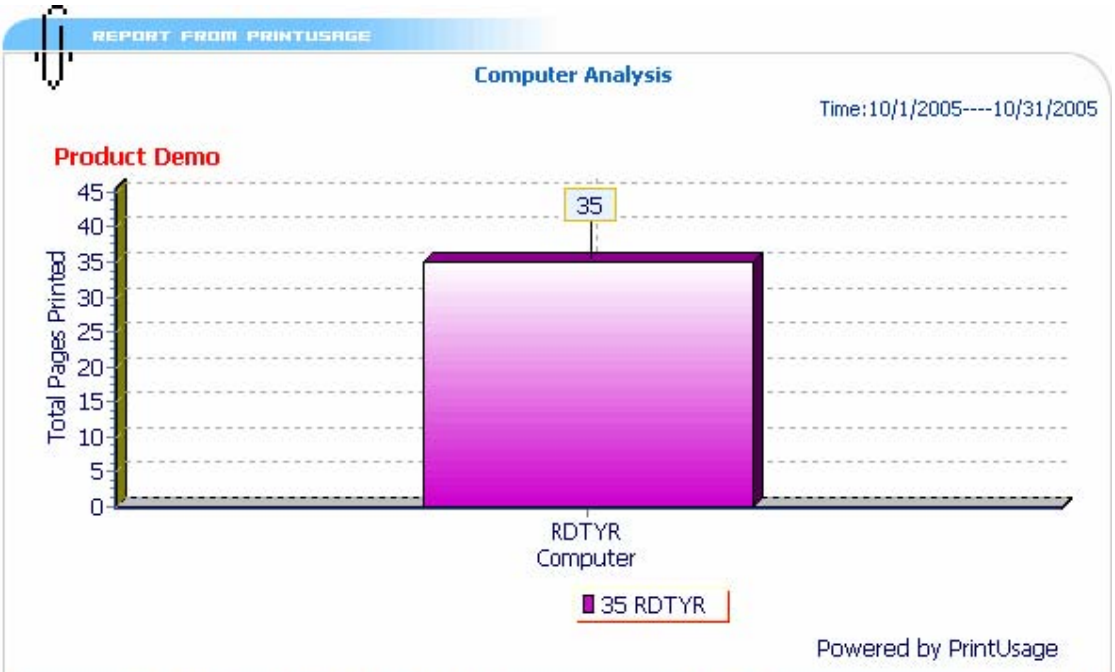
4.User Analysis

Analyzing printing status by each user.

Computer Analysis

Computer analysis has two options: query condition and report generation.

Please refer to Simple Report Condition for query condition.



	Computer	Total Pages Printed	Total Cost	Total Count
	RDTYR	35	$10.30	13
Summary:		35.00	$10.30	13.00

Click on computer name to display detail statistic of each print client.

Report Date: 10/20/2005 2:39:36 PM
Computer:RDTYR

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP 2500C Series	RDTYR	10/13/2005	1	Test Page	346	$0.10	DOEVER	doever
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/13/2005	1	Test Page	339	$0.10	DOEVER	doever
Total Count 13			35		4,723	$10.30		

Specification:

Page shows 10 most usage users in descending order.

Click on printer name to view statistic with **satisfying statistic conditions of ranking report**, report including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

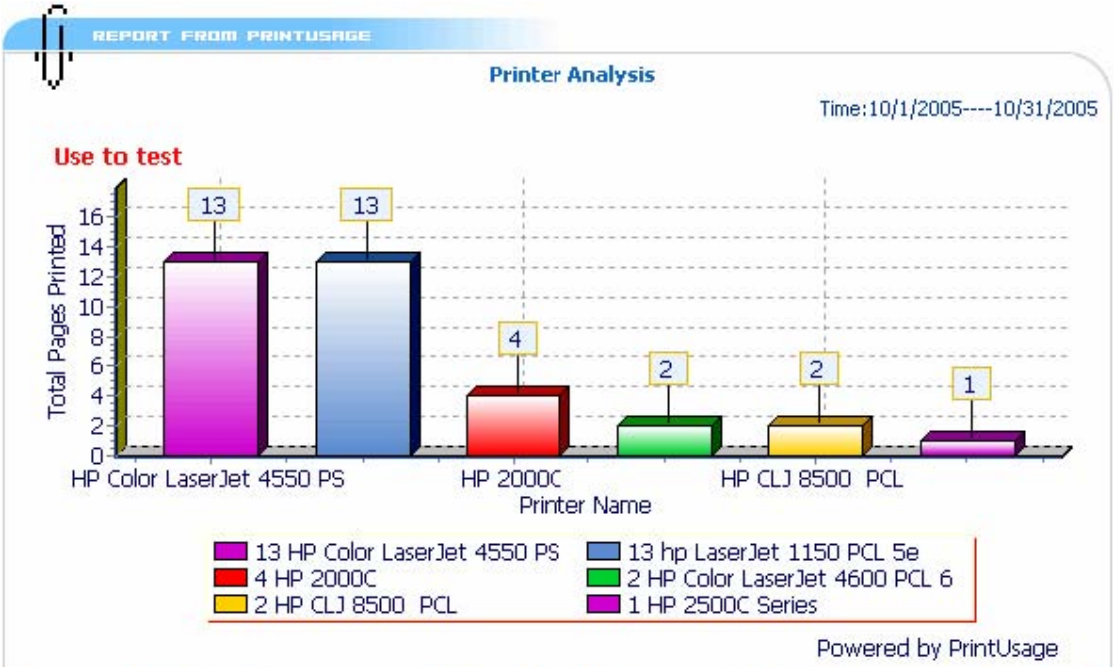
.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make a backup before making modification.

Printer Analysis

Printer analysishas two options,query condition and report generation.

Please refer to Simple Report Condition for query condition.



	Printer Name	Total Pages Printed	Total Cost	Total Count
	HP Color LaserJet 4550 PS	13	$6.50	3
	hp LaserJet 1150 PCL 5e	13	$1.30	3
	HP 2000C	4	$0.40	2
	HP Color LaserJet 4600 PCL 6	2	$1.00	2
	HP CLJ 8500 PCL	2	$1.00	2
	HP 2500C Series	1	$0.10	1
Summary:		35.00	$10.30	13.00

Click on printer name to display detail statistic of each printer.

Report Date: 10/13/2005 2:44:12 PM
Printer Name:hp LaserJet 1150 PCL 5e

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
Total Count 3			13		995	$1.30		

Specification:

Page shows 10 most usage printers in descending order.

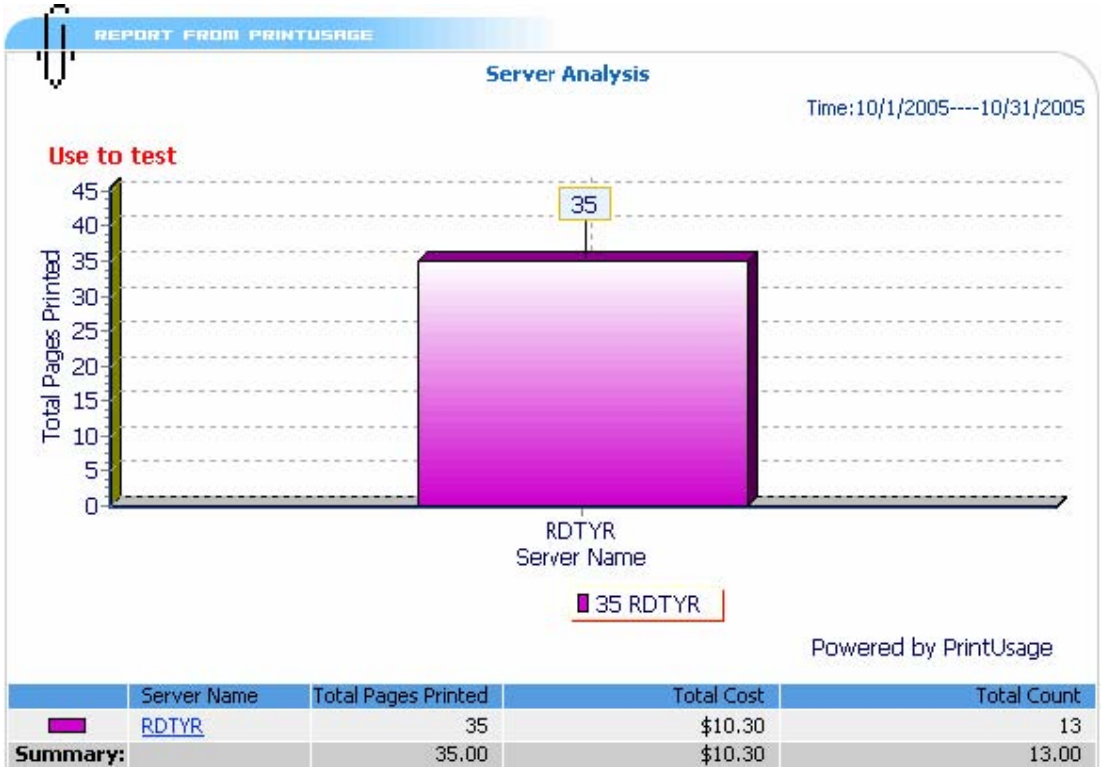
Click on printer name to view statistic with **satisfying statistic conditions of ranking report**, report including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make aback up before making modification.

Server Analysis

Server analysis has two options: query condition and report generation.

Please refer to Simple Report Condition for query condition.



	Server Name	Total Pages Printed	Total Cost	Total Count
	RDTYR	35	$10.30	13
Summary:		35.00	$10.30	13.00

Click on server name to display detail statistic of each server.

Report Date: 10/13/2005 2:48:29 PM
Server Name:RDTYR

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP 2500C Series	RDTYR	10/13/2005	1	Test Page	346	$0.10	DOEVER	doever
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/13/2005	1	Test Page	339	$0.10	DOEVER	doever
Total Count 13			35		4,723	$10.30		

Specification:

Page shows 10 most usage servers in descending order.

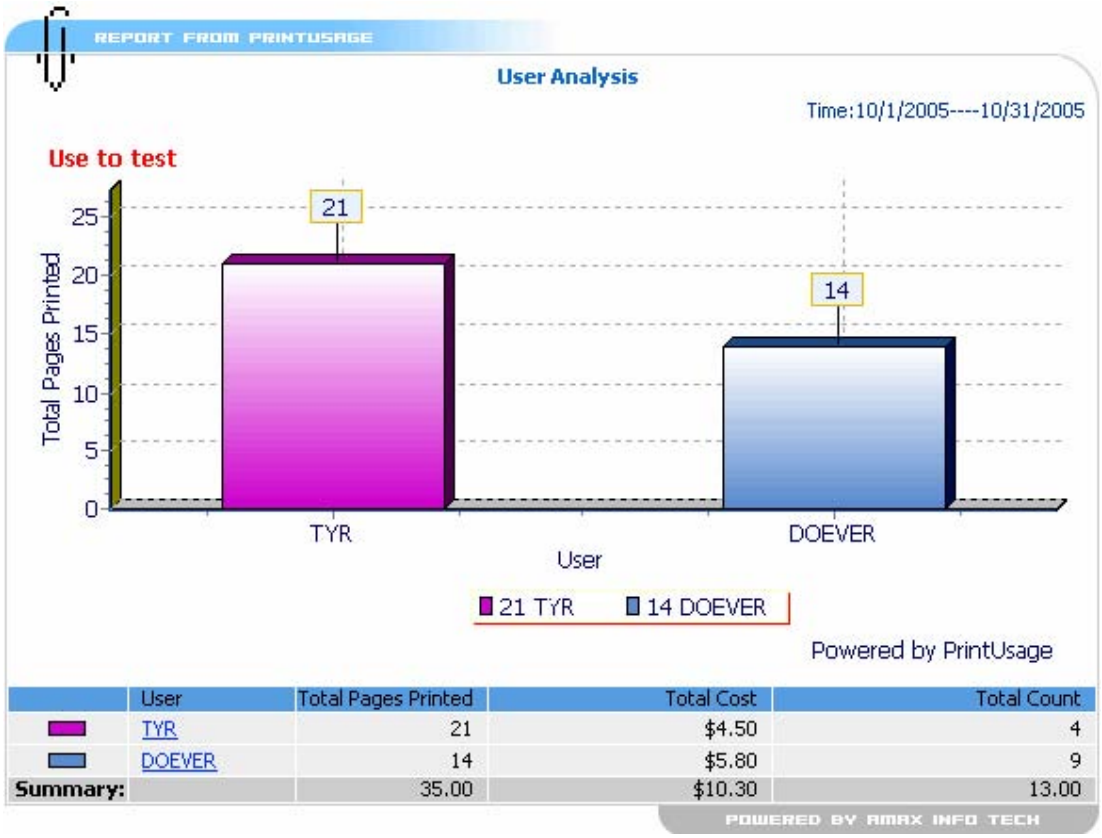
Click on server name to view statistic with **satisfying statistic conditions of ranking report**, report including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make a backup before making modification.

User Analysis

User analysis has two options: query condition and report generation.

Please refer to Simple Report Condition for query condition.



	User	Total Pages Printed	Total Cost	Total Count
	TYR	21	$4.50	4
	DOEVER	14	$5.80	9
Summary:		35.00	$10.30	13.00

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Click on user name to display detail statistic of each user.

Report Date: 10/13/2005 2:51:08 PM
User:TYR

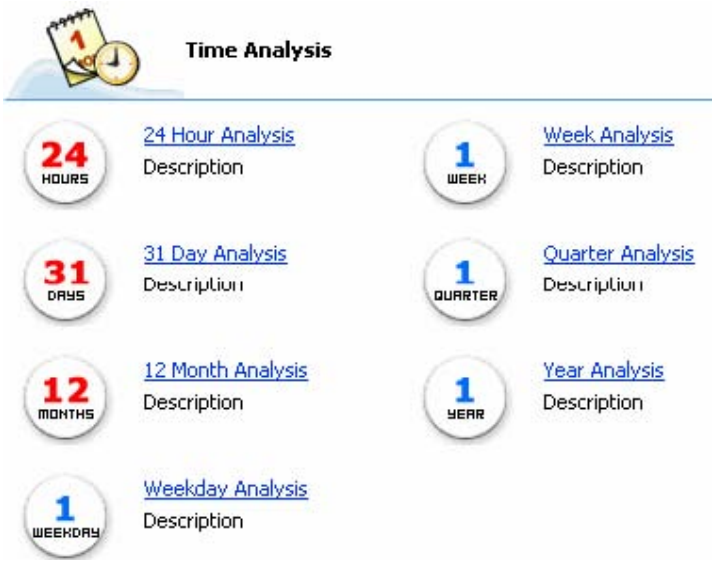
Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
Total Count 4			21		3,237	$4.50		

Specification:

Click on user name to view statistic with **satisfying statistic conditions of ranking report**, report including printer name, print server name, print date, pages, file name, bytes, print charge, user name and user full name.

Note: user can change default value in Report\Type_Top.xml. Please refer Advanced Settings and make a backup before making modification.

Time Analysis



1. 24 Hour Analysis

Analysis printing job in last 24 hrs.

2. Weekday Analysis

Analysis printing job in last week.

3. 31 Day Analysis

Analysis printing job from 1st day to 31st days.

4. Quarter Analysis

Analysis printing job from last quarter.

5. 12 Month Analysis

Analysis printing job from 1st month to12th months.

6. Year Analysis

Analysis printing job yearly.

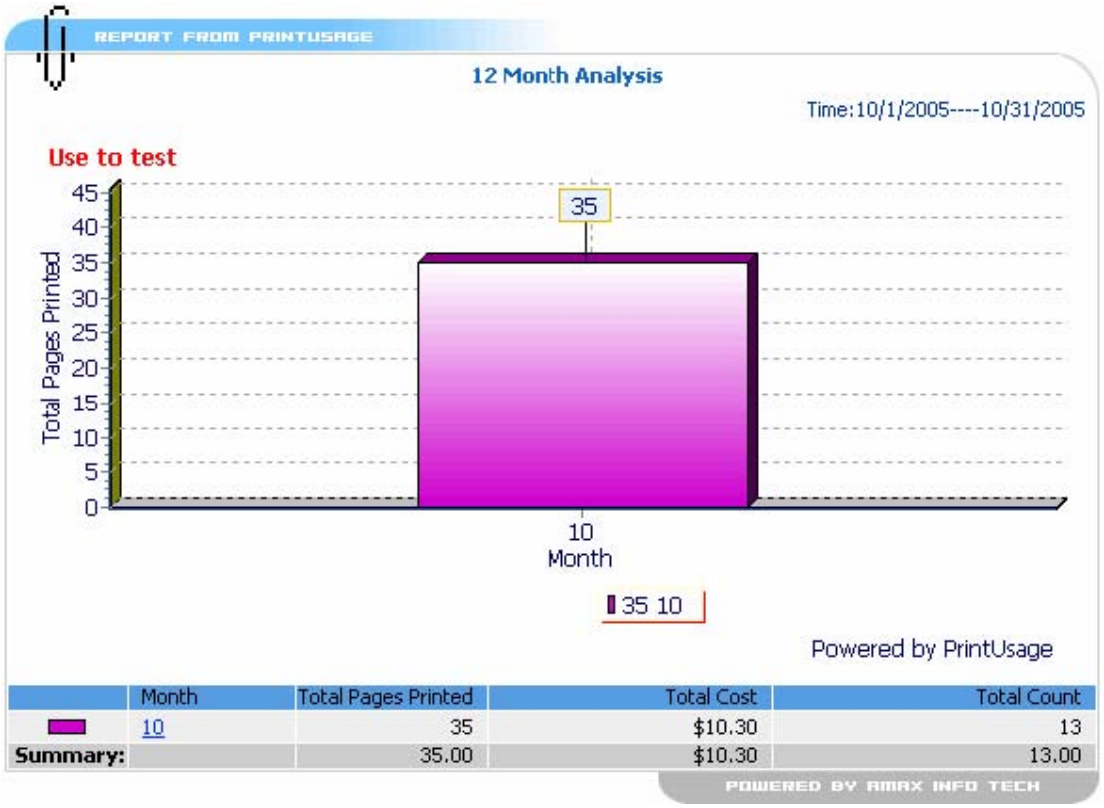
7. Week Analysis

Analysis printing job weekly.

12 Month Analysis

Twelve printing analysis report is created by inquiry and report form.

User refers to Simple Report Conditions about inquiry conditions.



Click on month to get statistical information of each month. By clicking the tenth month to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:10:15 PM
Month:10

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP 2500C Series	RDTYR	10/13/2005	1	Test Page	346	$0.10	DOEVER	doever
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/13/2005	1	Test Page	339	$0.10	DOEVER	doever
Total Count 13			35		4,723	$10.30		

Specification:

The page displays printing report within twenty-four months, the simple chart display total bytes, total pages, total printed bytes, total printed pages, printing times.

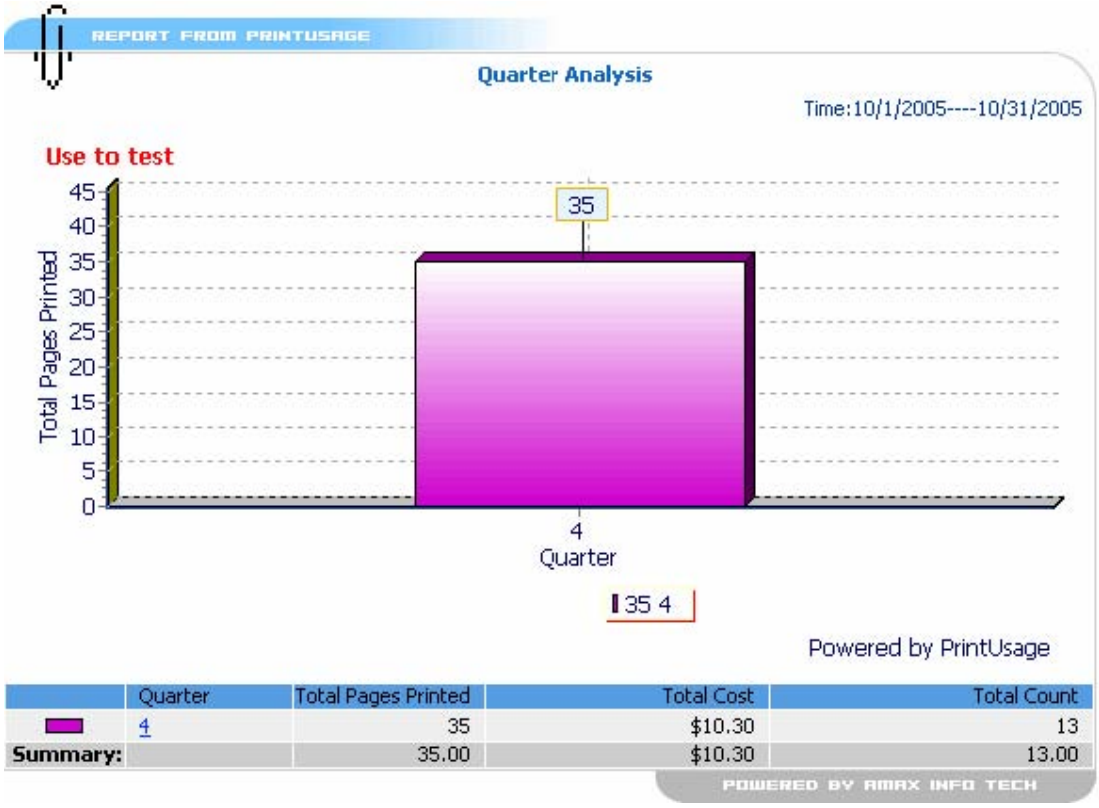
Click on month to get related statistical information of given month according with **statistical conditions**. It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Quarter Analysis

Quarter printing statistic is created by inquiry and report form.

User can refer to Simple Report Condition about inquiry conditions.



Click on quarter to get statistical information of each quarter. By clicking the fourth quarter to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:56:30 PM
Quarter:4

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever

Specification:

The page displays printing report within four quarters, the simple chart displays total bytes, total pages, total printed bytes, total printed pages, printing times.

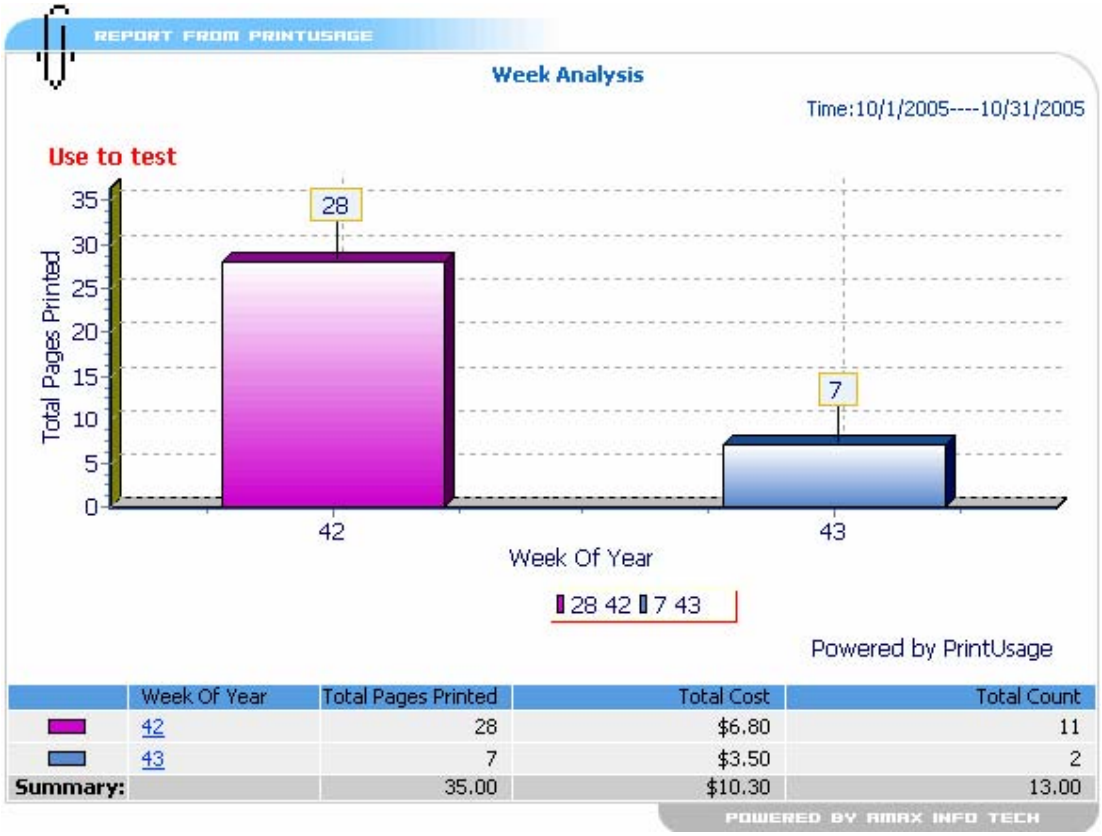
Click on quarter to get related statistical information of given quarter according with **statistical conditions**. It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from R eport\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Week Analysis

Week analysis Report is created by inquiry and report forming.

User refers to Simple Report Conditions about inquiry conditions.



	Week Of Year	Total Pages Printed	Total Cost	Total Count
	42	28	$6.80	11
	43	7	$3.50	2
Summary:		35.00	$10.30	13.00

Click on week to get statistical information of each week. By clicking the forty-two week to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:04:35 PM
Week Of Year:42

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP 2500C Series	RDTYR	10/13/2005	1	Test Page	346	$0.10	DOEVER	doever
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/13/2005	1	Test Page	339	$0.10	DOEVER	doever
Total Count 11			28		4,114	$6.80		

Specification:

The page displays printing report within twenty four weeks, the simple chart display total bytes, total pages, total printed bytes, total printed pages, printing times.

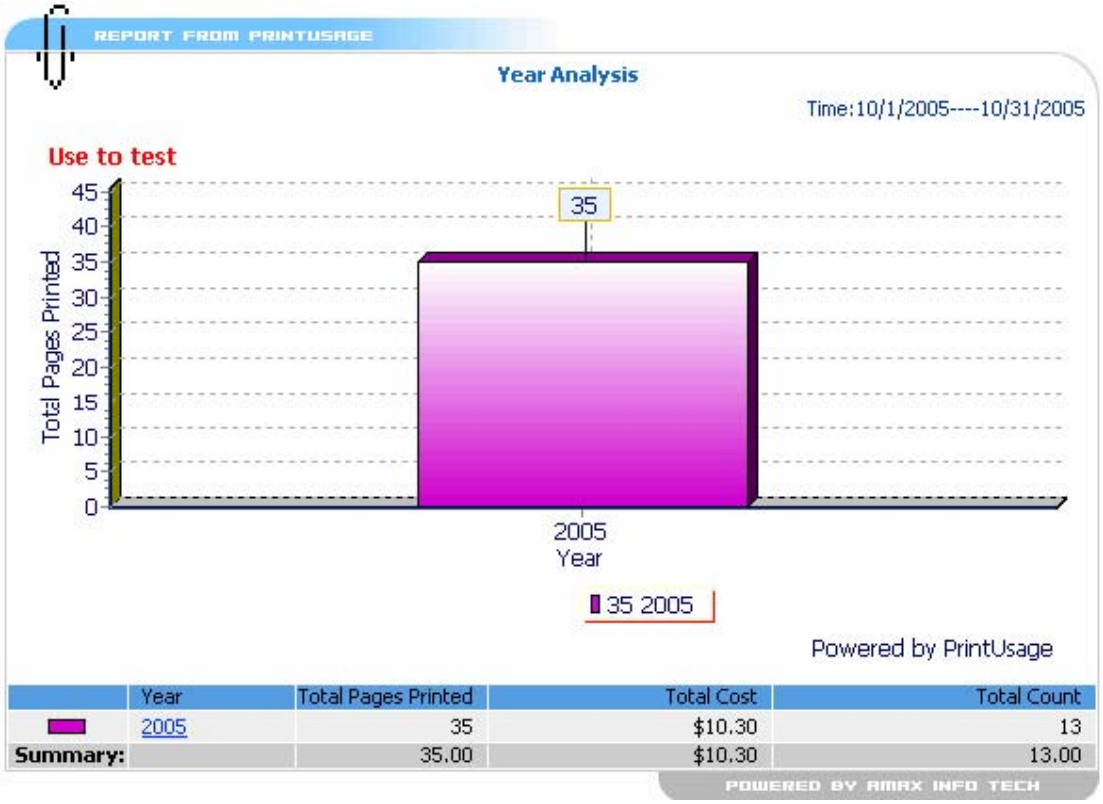
Click on week to get related statistical information of given week according with statistical conditions. It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Year Analysis

Year Analysis Statistic is created by inquiry and report form.

User refers to Simple Report Conditions about inquiry conditions.



Click on year to get statistical information of each year. By clicking the year 2005 to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:07:10 PM

Year:2005

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP 2500C Series	RDTYR	10/13/2005	1	Test Page	346	$0.10	DOEVER	doever
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/13/2005	1	Test Page	339	$0.10	DOEVER	doever
Total Count 13			35		4,723	$10.30		

Specification:

The page displays printing report within one year, the simple chart display total bytes, total pages, total printed bytes, total printed pages, printing times.

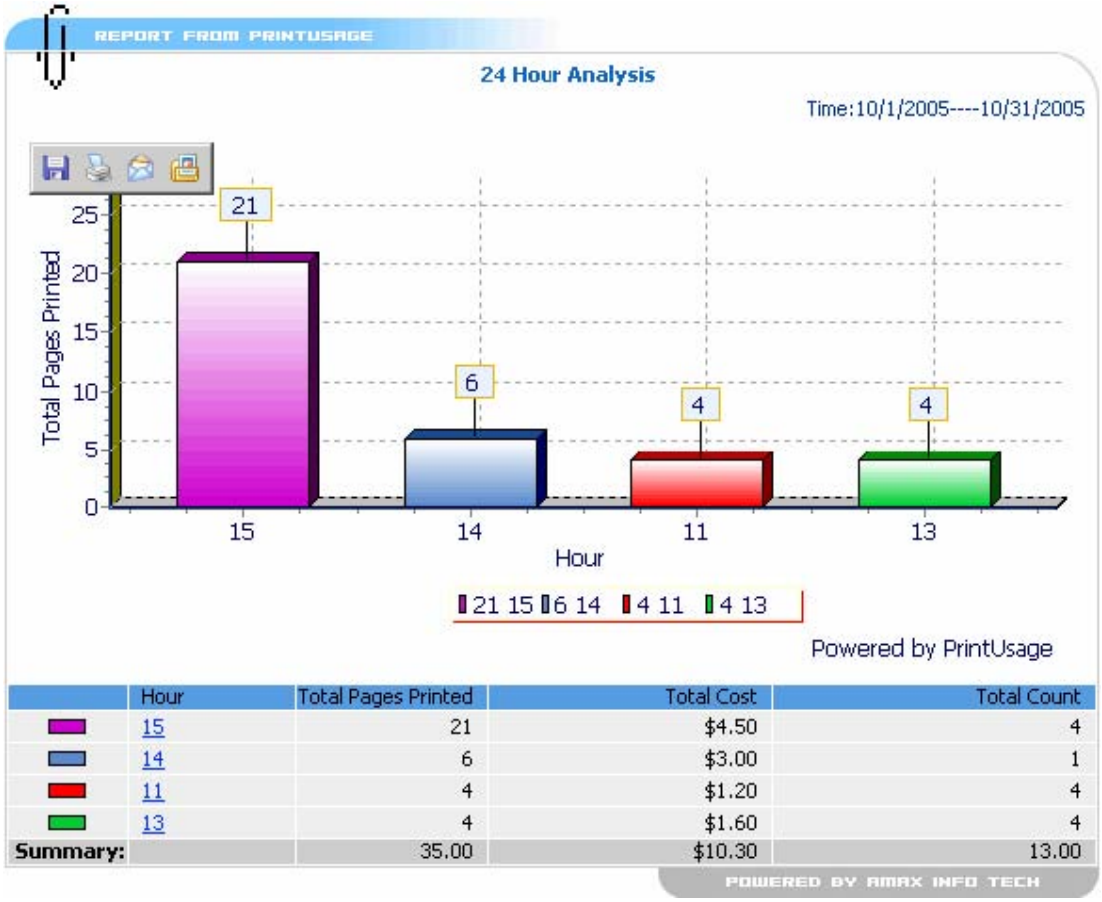
Click on year to get related statistical information of given year according with statistical conditions. It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

24 Hour Analysis

Report of twenty-four hour analysis created by inquiry and report forming.

User refers to Simple Report Conditions about inquiry conditions.



	Hour	Total Pages Printed	Total Cost	Total Count
	15	21	$4.50	4
	14	6	$3.00	1
	11	4	$1.20	4
	13	4	$1.60	4
Summary:		35.00	$10.30	13.00

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Click on hour to get statistical information of each hour. By clicking the fifteen hour to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:13:00 PM

Hour:15

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
Total Count 4			21		3,237	$4.50		

Specification:

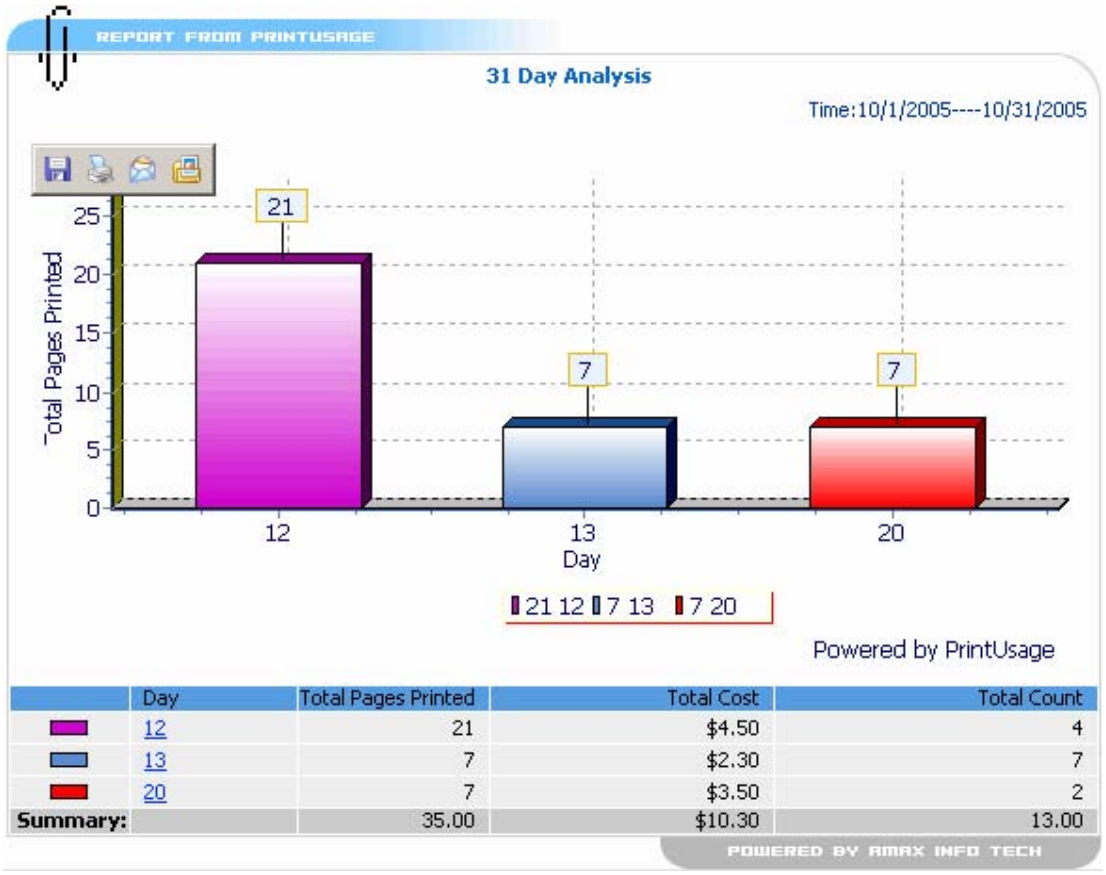
The page displays printing report within twenty-four hours, the simple chart display total bytes, total pages, total printed bytes, total printed pages, printing times.

Click on hour to get related statistical information of given hour according with **statistical conditions.** It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.
Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

31 Day Analysis

Analysis Report of Thirty-one Day Printing is created by inquiry and report form.

User can refer to Simple Report Condition about inquiry condition



	Day	Total Pages Printed	Total Cost	Total Count
	12	21	$4.50	4
	13	7	$2.30	7
	20	7	$3.50	2
Summary:		35.00	$10.30	13.00

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Click on day to get statistical information of each day. By clicking the twelve day to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:15:06 PM
Day:12

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
hp LaserJet 1150 PCL 5e	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	469	$0.60	TYR	Tyr@amaxit.net
HP Color LaserJet 4550 PS	RDTYR	10/12/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	TYR	Tyr@amaxit.net
HP 2000C	RDTYR	10/12/2005	3	Microsoft Word - UseToTest.doc	1,715	$0.30	TYR	Tyr@amaxit.net
Total Count 4			21		3,237	$4.50		

Specification:

The page displays printing report within thirty-one days, the simple chart display total bytes, total pages, total printed bytes, total printed pages, printing times.

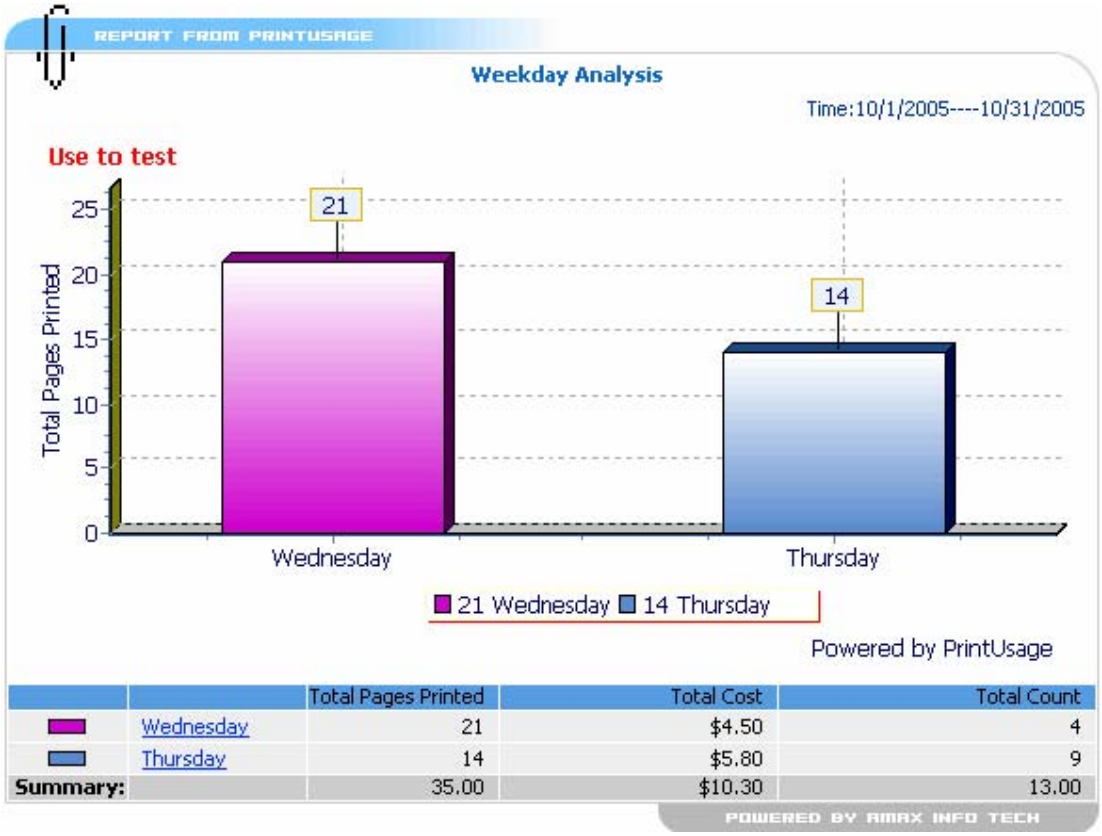
Click on day to get related statistical information of given day according with **statistical conditions**. It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Weekday Analysis

User weekday printing report is created by inquiry and report form.

User can refer to Simple Report Condition about inquiry conditions.



		Total Pages Printed	Total Cost	Total Count
	Wednesday	21	$4.50	4
	Thursday	14	$5.80	9
Summary:		35.00	$10.30	13.00

Click on weekday to get statistical information of each weekday. By clicking the Thursday to display information of all documents with inquiry conditions.

Report Date: 10/13/2005 3:54:12 PM
WeekDay:Thursday

Printer Name	Server Name	Submit Time	Pages Printed	Document	Total Bytes	Total Cost	User	Full Name
hp LaserJet 1150 PCL 5e	RDTYR	10/13/2005	1	Test Page	57	$0.10	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4600 PCL 6	RDTYR	10/13/2005	1	Test Page	25	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/13/2005	1	Test Page	58	$0.50	DOEVER	doever
HP Color LaserJet 4550 PS	RDTYR	10/20/2005	6	Microsoft Word - UseToTest.doc	584	$3.00	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/20/2005	1	Test Page	26	$0.50	DOEVER	doever
HP CLJ 8500 PCL	RDTYR	10/13/2005	1	Test Page	26	$0.50	DOEVER	doever
HP 2500C Series	RDTYR	10/13/2005	1	Test Page	346	$0.10	DOEVER	doever
HP 2000C	RDTYR	10/13/2005	1	Test Page	339	$0.10	DOEVER	doever
Total Count 9			14		1,486	$5.80		

Specification:

The page displays printing report within forty-eight weeks, the simple chart display total bytes, total pages, total printed bytes, total printed pages, printing times.

Click on weekday to get related statistical information of given weekday according with **statistical conditions**. It displays different printing information with printer name, printing server name, printing time, printed page, document name, total bytes, printed expense, user name and full name.

Notice user can modify default value of document from Report\Report_FileType\Config.ini. Please refer "advanced setting" and backup before making modification.

Advanced Settings

1. Definition of Report Types

2. Property Setting of Report Types

3. Customization of Report Detailed pages

4. Customization of Report Form

5. Advanced Report Interface

Property Settings of Report Types

Use "Type_Task.xml" as example. Select "Graph_FileType" in report folder of installation directory. The code is as following:

<Graph_FileType Name="Graph_FileType" Type="Graph" GroupBy="FileType" OrderBy="" OrderDirect=""
PrinterStatus="A" ShowByTime="M">
<Chart MaxInChart="0">
<A_3D Is3D="1" Percent3D="10"></A_3D>
<Axis Width="580" Height="300" HLabelStyle="1" VLabelStyle="3"></Axis>
<Marks IsShowMarks="1" MarksStyle="1"></Marks>
<Legend IsShowLegend="1" LegendAlign="1" LegendStyle="1"></Legend>
</Chart>
<List IsShowList="1" MaxInList="0"></List>
<ListDetail style="DetailStyle.pnt" MaxInDetail="1000">
<ColName Name="PrinterName" Align="1" CountFun="Count" Formater="S"></ColName>
<ColName Name="PrinterServer" Align="1" CountFun="" Formater="S"></ColName>
<ColName Name="SubmitTime" Align="1" CountFun="" Formater="D:MM/dd/YYYY"></ColName>
<ColName Name="PagesPrinted" Align="3" CountFun="SUM" Formater="F:0"></ColName>
<ColName Name="Document" Align="1" CountFun="" Formater="S"></ColName>
<ColName Name="TotalBytes" Align="3" CountFun="SUM" Formater="F:0"></ColName>
<ColName Name="TotalCost" Align="3" CountFun="SUM" Formater="C:-1"></ColName>
<ColName Name="User" Align="1" CountFun="" Formater="S"></ColName>
<ColName Name="UserFullName" Align="1" CountFun="" Formater="S"></ColName>
</ListDetail>
</Graph_FileType>

Code listed above is a sub node of XML file.

1. Name is the name of node and system will automatically search in language package. Type indicate the report is graphical report.;

2. Group By shows the report statistics as X axis. Order Direct is sort by direction. Blank is the default value for descending order. "ASC" for ascending order.

3. Printer Status is default print status. A for all, S for print successfully, D for print denied.

4. Show By Time is default date.

5. In Chart sub node, MaxInChart= "0". 0 to display all records.

6. <A_3D Is3D="1" Percent3D= "10"></A_3D> display 3D graphical report. 1 to use 3D effect and Percent3D enable, 0 no 3D effect and Percent3D disable. Percent3D is the proportion size of 3D effect.

7. <Axis Width="580" Height="300" HLabelStyle="1" VLabelStyle= "3"></Axis> the draw size of graphical report.

8. <Marks IsShowMarks="1" MarksStyle= "1"></Marks> the mark of graphical report. 1 is to display and 0 is not display. If 0, Marks Style will be disable.

9. <Legend IsShowLegend="1" LegendAlign= "1" LegendStyle= "1"></Legend> the legend of graphical report. 1 to display and 0 not display. If 0, below units will be disable.

10. <List IsShowList= "1" MaxInList= "0"></List> the list displayed or not, the list number under graphical report. If there is no list, the view detailed information of record will not display. IsShowList shows if list is displayed . 1 to display and 0 not display. If not, MaxInList will be disabled.

11. <ListDetail style="DetailStyle.pnt" MaxInDetail= "1000"> shows whole configuration of detailed information, listed of information. The style of list will be described in **Customizaton of report detail pages**. Style is the model of detail page and there is only one which is DetailStyle.pnt.

12. <ColName Name="PrinterName" Align="1" CountFun="Count" Formater= "S"></ColName>the column description of detail page.The first column PrinterName must be match with field name of database; otherwises, report error will occur. If first column is user full name, only set toName= "UserFullName" is work. Align is arranged type: 1 is flush left, 2 is center, 3 is flush right. CountFun set tostatistics function. Formater shows data output format.

Customization of report detail pages

Find "Report\DetailStyle.pnt" in installation directory and open" DetailStyle.pnt " filewith wordpad.

Divided into chart head and chart end

<PrintUsage_ReportTitle> stand for report title

<PrintUsage_ReportDate> stand for report date

<PrintUsageLabel></PrintUsageLabel> stand for the title of the report head.

Because this system supports multi-language, the wording in the report cannot be written directly. It must be translated by the language packfile. The ruleof <PrintLabelField_filed name>, such as:<PrintLabelField_PrinterName>, You can set ranking, by clicking on field, such as :GetOrderBy('PrinterName')

Circulation:<PrintUsageLoop></PrintUsageLoop> stand for the begin and end of the circulation. The rule for circulation content is "<PrintTextField_filed name>", such as:<PrintTextField_PrinterName>

The code as following:

```
<style>
.std{
FONT-WEIGHT: normal;
FONT-SIZE: 12px;
COLOR: #000000;
LINE-HEIGHT: normal;
FONT-STYLE: normal;
FONT-VARIANT: normal;
TEXT-DECORATION: none
}
</style>

<table width="90%" border="0" align="center" cellpadding="0" cellspacing="0" class="std">

<tr>
<td class="std"><div align="right"></div></td>
</tr>
<tr>
<td class="std"><div align="center"><font size="6"><strong><PrintUsage_ReportTitle></strong></font></div></td>
</tr>
<tr>
<td class="std"> </td>
</tr>
<tr>
<td class="std"><div align="right"><font size="2"><PrintUsage_ReportDate></font></div></td>
```

```
</tr>
<tr>
<td class="std" align="right"><PrintUsage_ReportInfo></td>
</tr>
</table>

<table width="90%" border="0" align="center" cellpadding="0" cellspacing="0" bgcolor="#000000">
<tr>
<td ><table width="100%" border="0" align="center" cellpadding="2" cellspacing="1">
<PrintUsageLabel><tr align="center" bgcolor="#569CE1" class="std">
<FieldLoop>
<td align="<PrintUsage_Align>" nowrap><font color="white" style="cursor:hand"
onClick="javascript:GetOrderBy('<PrintUsage_LabelID>');"><PrintUsage_LabelValue></font></td>
</FieldLoop>
</tr></PrintUsageLabel>

<PrintUsageLoop>
<bgColorProperties>#F0F9FE_#FFFFFF_#D3EDFF</bgColorProperties>
<tr bgcolor="<PrintUsage_bgColor>" class="std">
<FieldLoop>
<td align="<PrintUsage_Align>" title="<PrintUsage_FullFieldValue>" ><PrintUsage_FieldValue></td>
</FieldLoop>
</tr>
</PrintUsageLoop>
<PrintSummation>
<tr bgcolor="#569CE1">
<FieldLoop>
<td class="std" nowrap align="<PrintUsage_Align>"><font color="white"><PrintUsage_FieldValue></font></td>
</FieldLoop>
</tr>
</PrintSummation>
</table></td>
</tr>
</table>
```

Customization of Report Form

Use"Graph_FailRate"as example. Find "Report\Graph_FailRate" in installation directory and open"Style6.ini".

The code is as following:

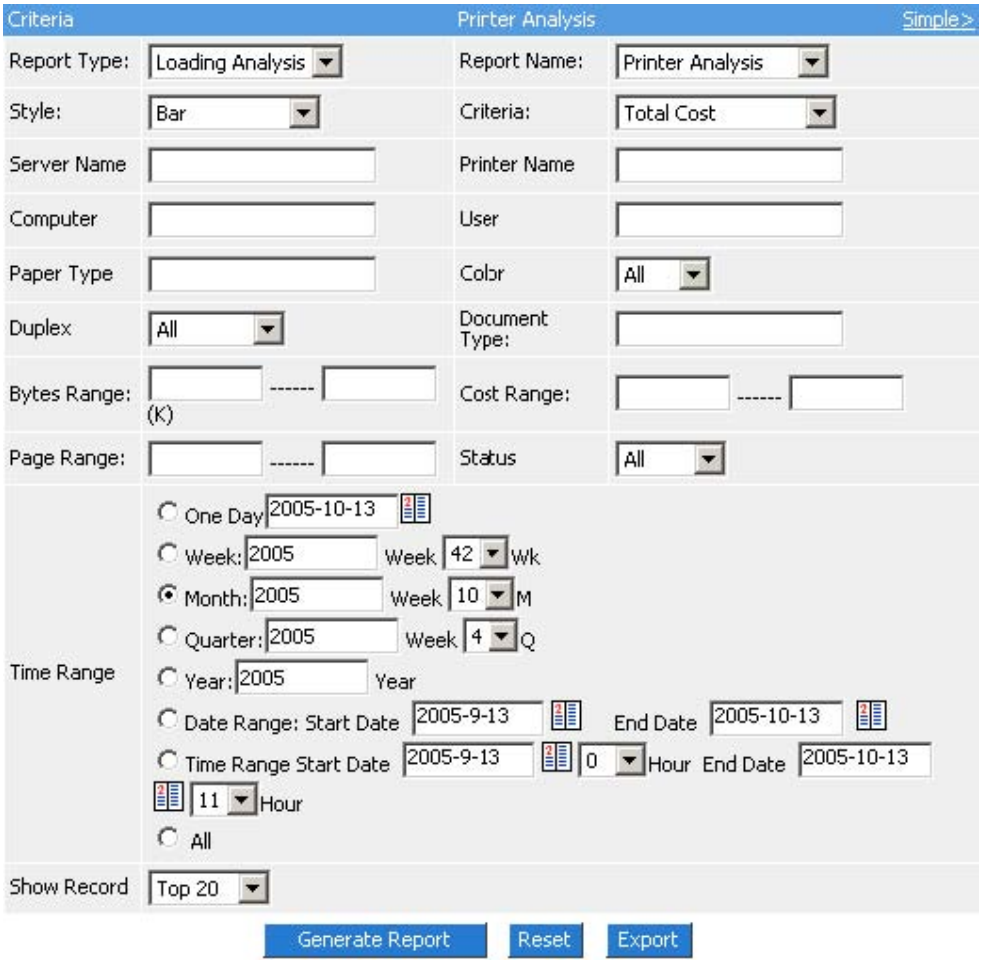
[Graph_FailRate_Style6]
;Set description for X axis
;If it is vacant, it shows the following language translation of the definition field, such as Status, is translated to "printing status".
X=
;The grouping base of setting the X axis. The value of XFieldName is the name of the field.
XFieldName=Status
;Set description for Y axis(default). If the user chooses the condition, then it shows the corresponding condition description.
Y=
;Set chart length
W=700
;Set chart height
H=300
;Set background color
BG=FFFFFF
;Set gradually changing property. If start gradually changing, then the background is of no effect.
IsGradientColor=false
GradientColorStyle=1
GradientColorStart=E28E32
GradientColorEnd=EBDA7C
;Whether to set 3D effect. If there is then it is True. If there isn't it is False.
3D=1
;The size of chart 3D(If View3D is false, then this property is of no effect)
Percent3D=10

;Set the scale mark and gridding of the horizontal axis and vertical axis. The scale mark types: 1name, 2static chart mark, 3value, 4blank.
HLabelStyle=1
VLabelStyle=3
;SeriesStyle Show cutline types and cutline names. Cutline types:1bar chart, 2horizontal bar chart, 3line chart, 4pie chart, 5point chart, 6area chart.
SeriesName=
SeriesType=6
;BarStyle
;Set shape, filling in pattern, and the color of filling in parttern for the bar.
;Bar shape:1square, 2area gradually changing, 3triangle, 4inversed triangle, 5ellipse,6arrow.
;Filling in pattern:1transparent, 2transverse line, 3vertical line, 4right-inclined line, 5left-inclined line, 6tartan, 7inclined tartan
;(Note:this method only can be applied in Series 1 or 2 charts, i.e.1bar chart, 2transverse bar chart. There is of no effect

in other chart types.)
BarStyleSharp=2
BarStyleFill=1
BarStyleColor=2C672D
;PointStyle
;Set shape of value point
;Shape of value point: 1square, 2round, 3upside triangle, 4downside triangle, 5cross, 6error mark(X),7star(*), 8diamond, 9small dot
;(Note:this method only can be applied in Series 3, 5 or 6 charts, i.e.3line chart, 5point chart, 6area chart. There is of no effect in other chart types.)
PointStyleSharp=1

;MarksStyle
;Set report style
;1value, 2percentage, 3mark name, 4mark name and percentage, 5relative sum percentage
MarksStyle=3
;Output is the output quality of picture
Output=100

Advanced Report Interface



Function Options

The setting pages of the advanced report. Systems will create a new report according to the user has chosen and filled.

1. Choose a pre-defined report and showing style

1. Choose report type, use "Ranking Statistic" as example, showing as the following chart:

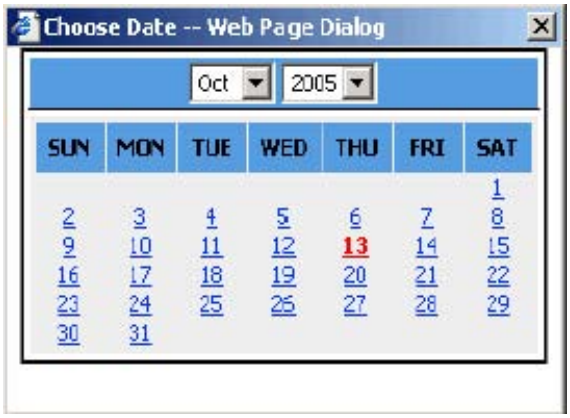
2. Choose report by name, use "Printer Ranking" as example, showing as the following chart:

3. Choose style list, use "transverse bar" as example, showing as the following chart:

4. Choose the showing value. The system default is "total printing cost". User can go to Advanced Setting to reset.

5. Input reasonable condition base on user's demand.

6. Choose correct time. Click on the right of "Time Range". Then input the year and corresponding contents. Or click icon, it will pop up the following interface:



Choose the year, month, and date. The chose dates will appear on the left of icon.

7. Click "Creating Report" button, the new report will be created and pop up a new page.

8. Showing report, see Advanced Report

Definition for Report Type

Use for configuring summary report, Cross Tab report and Master/Detail report.

1.Cross Tab Report

Cross Tab report is the relationship between two different linking data such as the monthly charge for each user. Currently it supports comparison by User&Time and Department&Time. It can be sort by day, week, month, quarter and year. Here, Style1indicates User&Time and Style2 for Department&Time.

Configuration: open Type_CrossTab.xml with NotePad. Use User&Time for example. The code is as following:

<CrossTab ID="Style1">
<StyleName>StyleName1</StyleName>
<ColumnType>M</ColumnType>
<RowType>GroupName</RowType>
<CalculateType>5</CalculateType>
<RecordPerPage>0</RecordPerPage>
<Table>
<BorderWidth>1</BorderWidth>
<BorderColor>black</BorderColor>
<Width>100%</Width>
</Table>
<Guard>
<MaxValue>0</MaxValue>
<BgColor>red</BgColor>
<FontColor>white</FontColor>
<FontSize></FontSize>
<FontStyle>3</FontStyle>
</Guard>
<Title>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>14pt</FontSize>
<FontStyle>1</FontStyle>
</Title>
<Head>
<BgColor></BgColor>
<FontColor>black</FontColor>
<FontSize>12pt</FontSize>
<FontStyle>1</FontStyle>
</Head>
<Left>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>

<FontStyle>0</FontStyle>
</Left>
<Main>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
<AlternateBgColor>#EEEEEE</AlternateBgColor>
<AlternateFontColor></AlternateFontColor>
<AlternateNum>5</AlternateNum>

</Main>
<Summation>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>1</FontStyle>
</Summation>
<SubTotal>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
</SubTotal>
<Query>
<StartDttm></StartDttm>
<EndDttm></EndDttm>
<Status></Status>
<Filter></Filter>
</Query>
</CrossTab>

CrossTab is cross table
ID is unique mark of cross table
StyleName is name of cross table
CalculateType is value types. 4 is total pages, 5 for total cost, 6 for print count
MaxValue is max alert value

Headr is style of top of table
Left is style of the right of table
Main is style of display area
Summation is style of Summation
SubTotal style of subtatol

AlternateBgColor is background color of alternate item.
AlternateFontColor is font color of alternate item

AlternateNum is records number of alternation

FontColor is font color

BgColor is background color of font
FontSize is font size
FontStyle is font style. 0 is for normal, 1 for bold, 2 for italic and 3 for bold italic

RecordPerPage is records per page

2.Master/Detail Report

The reportshow the relationship between master report and detail report.

Configuration: open Type_MasterDetail.xml with notepad. Take Department&User for instance. The code is as following:

<MasterDetail ID="Style1">
<StyleName>MasterDetail_StyleName1</StyleName>
<RecordPerPage>0</RecordPerPage>
<Table>
<BorderWidth>1</BorderWidth>
<BorderColor>Black</BorderColor>
<Width>100%</Width>
</Table>
<Title>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>14pt</FontSize>
<FontStyle>1</FontStyle>
</Title>
<Head>
<BgColor></BgColor>
<FontColor>black</FontColor>
<FontSize>12pt</FontSize>
<FontStyle>1</FontStyle>
</Head>
<Left>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
</Left>
<Main>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>

<AlternateBgColor>#EEEEEE</AlternateBgColor>
<AlternateFontColor></AlternateFontColor>
<AlternateNum>1</AlternateNum>
</Main>
<Summation>
<BgColor></BgColor>
<FontColor></FontColor>
<FontSize>10pt</FontSize>
<FontStyle>1</FontStyle>
</Summation>
<SubTotal>
<BgColor>#569CE1</BgColor>
<FontColor>white</FontColor>
<FontSize>10pt</FontSize>
<FontStyle>0</FontStyle>
</SubTotal>
<Master>
<Field>GroupName</Field>
<Order>1</Order>
<Direction>1</Direction>
</Master>
<Detail>
<Field>User</Field>
<Order>1</Order>
<Direction>1</Direction>
</Detail>
<List>
<Type>SUM</Type>
<Field>PagesPrinted,TotalCost,Count</Field>
</List>

</MasterDetail>

<RecordPerPage>0</RecordPerPage> shows how many master records is displayed and 0 is to display all master report records.

The configuration describes the format of master report and detail report.

<Master>
<Field>GroupName</Field>
<Order>1</Order>
<Direction>1</Direction>
</Master>

It shows property of master report. The master report is group/department name indicated by <Field></Field>; Order shows sort field is print pages. 1 is for pages, 2 for charge, 3 for print count, 0 for name. Direction is sort in order, 1 for descending, 0 for ascending.

<Detail>
<Field>User</Field>
<Order>1</Order>
<Direction>1</Direction>
</Detail>

It shows the property of detail report.

Options

1.Registration

List user name, licensed printer number and valid time.

2.Monitor Mode

There are three Monitoring Mode: Monitoring and print fee charging, Monitoring with simple control and Monitoring with advanced control. Only one type is available.

3.Notification

Setup user print notification including Windows Message service and sending E-mail.

4.Template

Manage the templates user defined such as server templates, printer templates, user/computer group templates and user/computer templates.

5.Language

Supports multi-language.

6.Administrator

Setup administrator info.

7.Roles

Add /remove user role and assign different roles for different administrators.

8.Paper Type

Setup paper types, which can be user-defined in name and size.

9.File Type

Setup File Types.

10.Data Maintenance

Remove print log and system log.

Registration Info

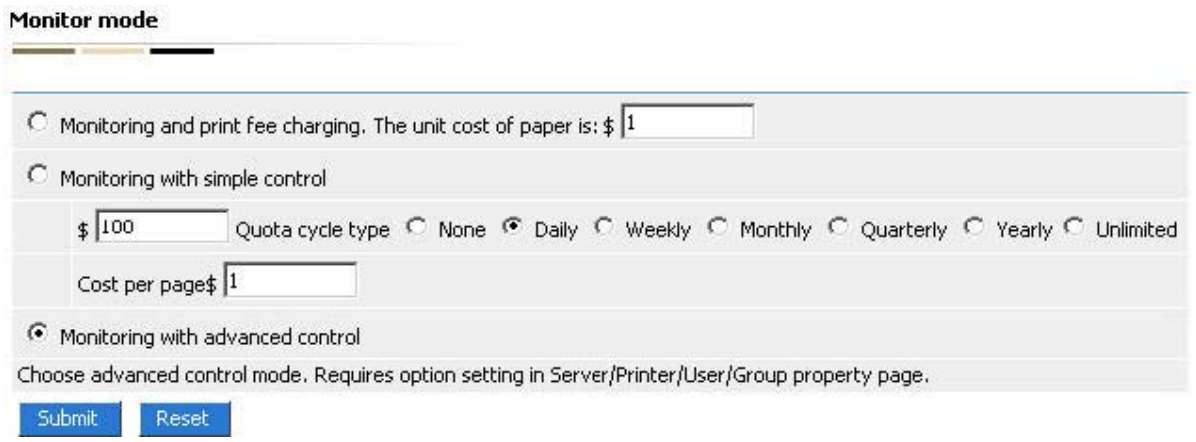
Registration info includes user name and registration code.

Licensed printer is monitored printer number authorized by the software.

Click [Imput registration code] to input registration code in pop-up box and click submit.

The registration info will be displayed if the code is correct.

Monitor Mode


Monitor mode
Monitoring and print fee charging. The unit cost of paper is: $ 1
Monitoring with simple control
$ 100 Quota cycle type None Daily Weekly Monthly Quarterly Yearly Unlimited
Cost per page$ 1
Monitoring with advanced control
Choose advanced control mode. Requires option setting in Server/Printer/User/Group property page.
Submit
Reset

Description for different monitoring modes:

Mode 1: Monitoring and print fee charging

All users can use printer resource without any limit. But users' print records will be recorded in database for statistic and report. By defining the cost for different paper type and estimate the print cost.
This mode is good for users who want to know the printing cost.

Mode 2: Monitoring with simple control

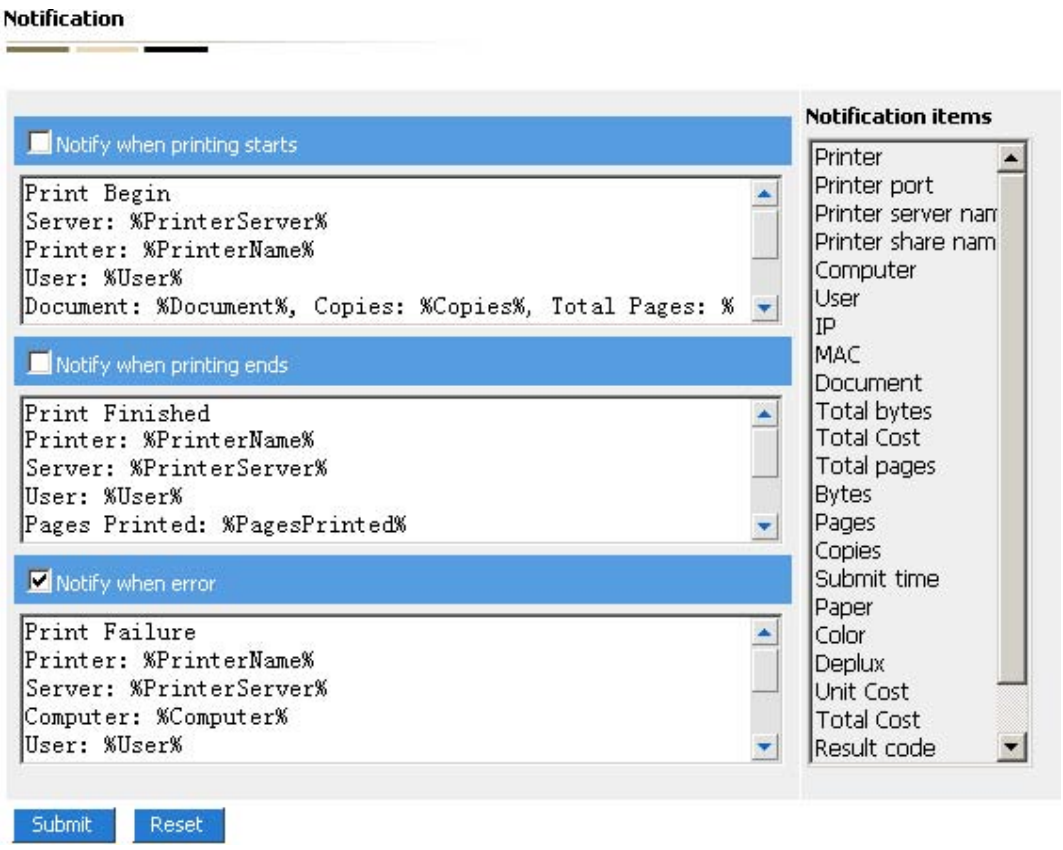
Mode 2 adds a quota control feature.
User can not print if reach the quota.
Periodical quota, user cannot print until next period if reach current quota.
This mode is good for users who want print cost control without limitation.

Mode 3: Monitoring with advanced control

Mode 3 enables user to make advance setup in user, user group, printer, server, print time, file type, paper type and quota, and define the detailed cost for different paper type.
This mode is good for advanced users who want to control print task in multi aspects.

The advanced setting for Mode 3 only.

Notification



- During processing print tasks, setup notification when print start, complete or occurring error.
- Notify when printing starts: select this option to notify user when print start. There are three ways: WINPOPUP, EMAIL and printing a blank page. Select preferred notification type-->input notification message in editing box_-->select notification items form custom options from right hand side-->double click to locate cursor position in the editing box of the left hand side. The wording cannot be changed.
- Notify when printing ends: select this option to notify user when print completed. The step is as same as notify when print start.
- Notify when error: select this option to notify user when error occurring. The step is as same as notify when print start.
- Mail subject: it is the mail subject.
- Sender: email send from address.
- SMTP server: SMTP is short for Simple Mail Transfer Protocol. SMTP server is to specify the mail server name.
- SMTP user name: sender SMTP account.
- SMTP password: sender SMTP password.

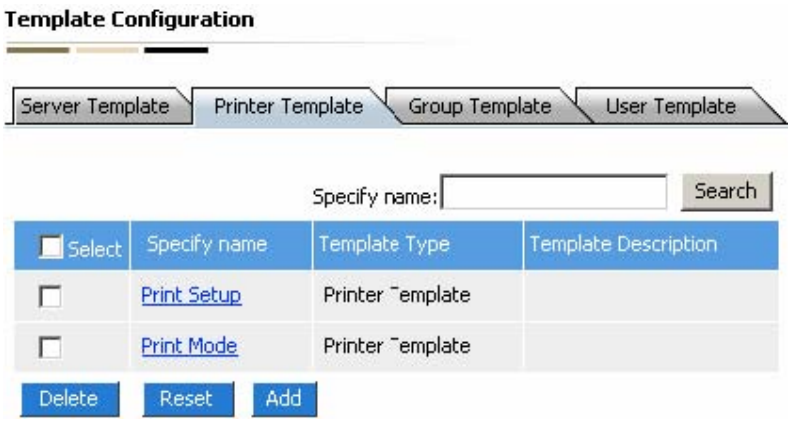
Note:

Double click notification items at the right side to add notification.

When setup WinPopup, please make sure the Messenger service of print client is running. Otherwise, user will not receive the system notification message.

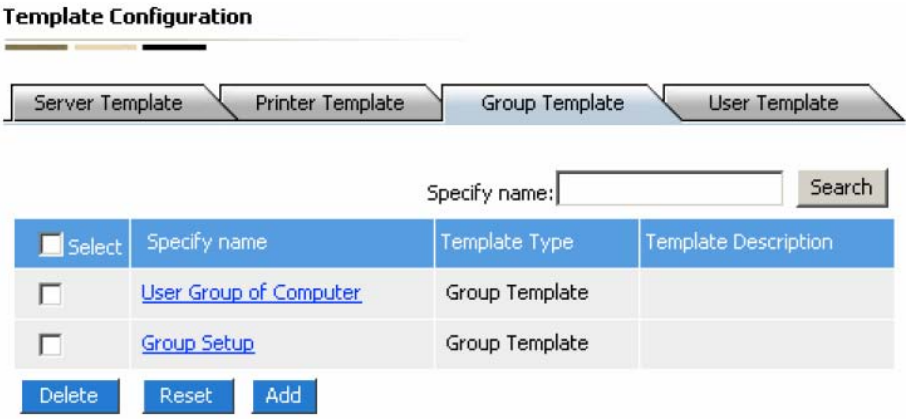
Template

Template management includes server module, printer module, user/computer group module and user/computer module.



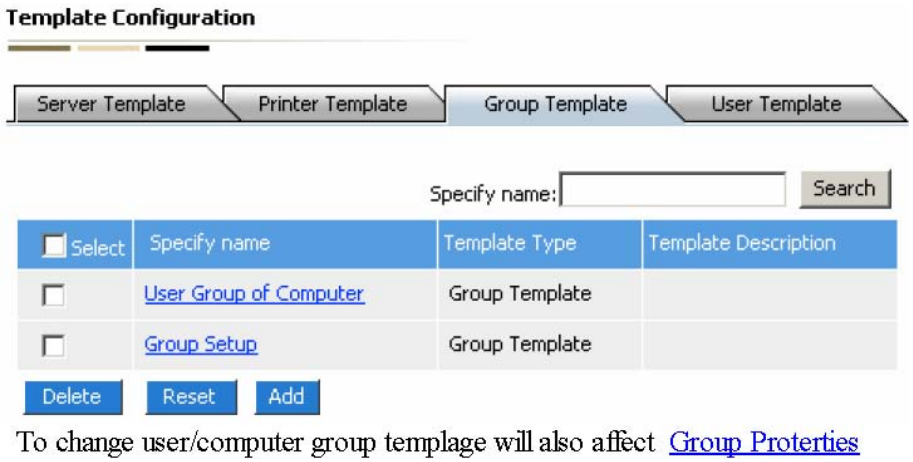
To change server template will also affect Server Properties

Printer template



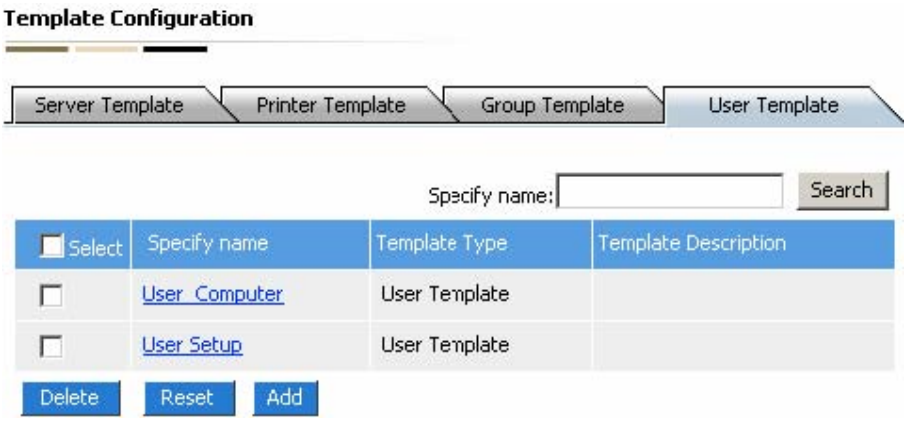
To change printer template will also affect Printer Properties

User/computer group template



To change user/computer group template will also affect Group Properties

User/computer template



To change user/computer template will influence User Properties

Template quotation

There are two types of template quotation:

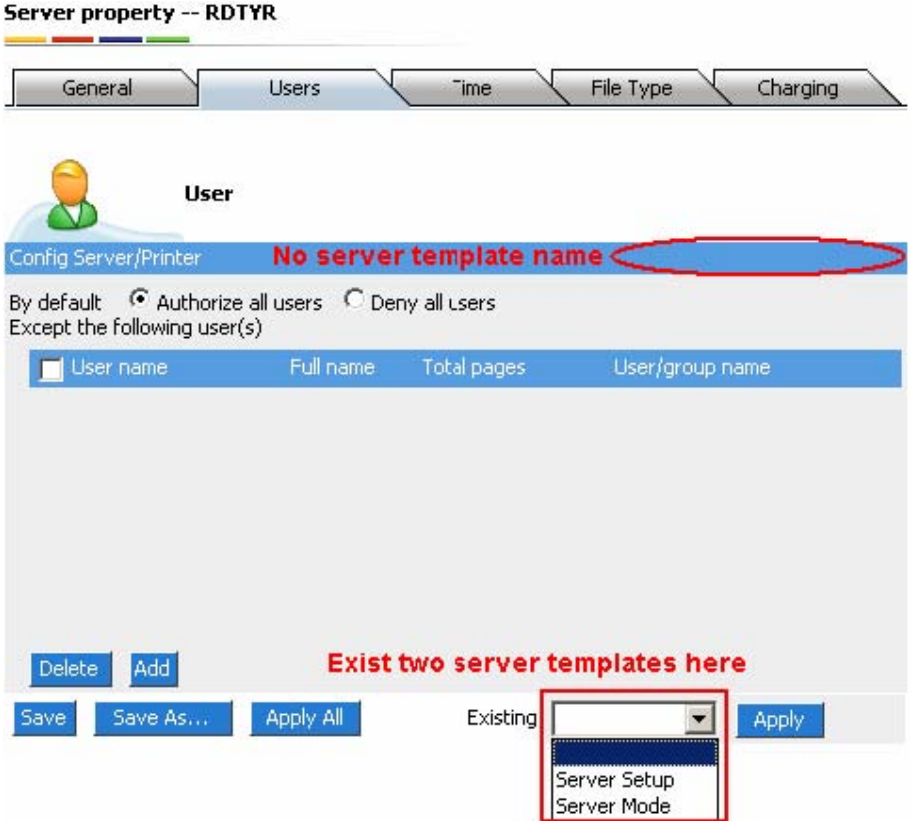
- Template finger quotation administrator configure within a file without self-configuration info.
- Template value quotation administrator configure within a file. Template change will not change other configuration.
- Following example shows main differences between two quotations.

  Use server template for instance, the monitoring mode is monitoring with advanced control

1. Log on as system administrator.

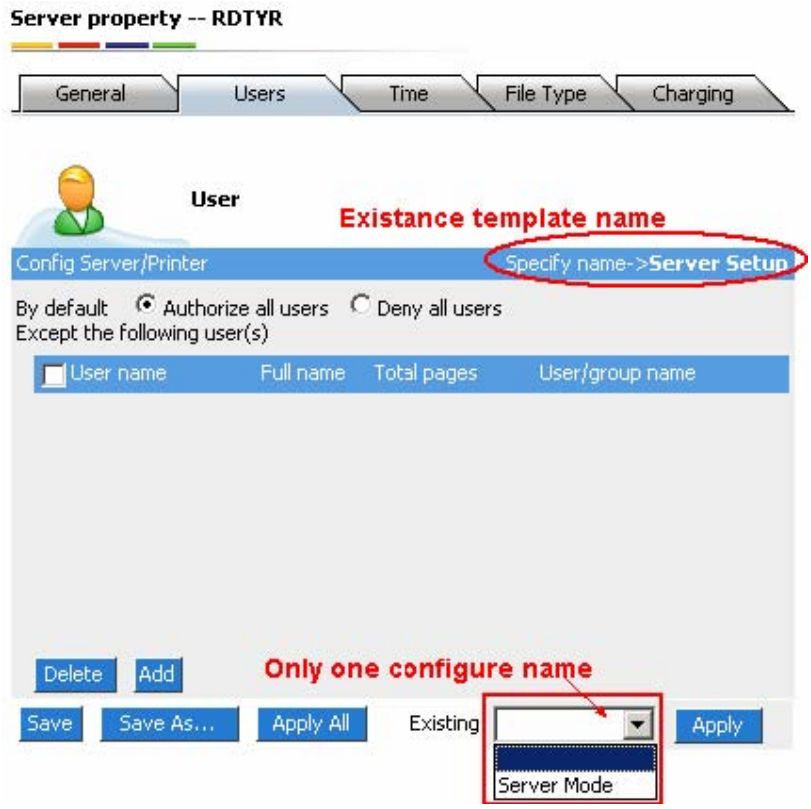
2. In server group, click a server name to display basic info from print monitoring server.

3. Click user name, file type or charge to display info.



Server has itself own property and will not follow Server Setup or Server_Mod settings change.

4. Click [Apply] to get following property.



5. To change template finger quotation and template value quotation. Click save to apply template value. Select a template and click [Apply] to apply template finger quotation.

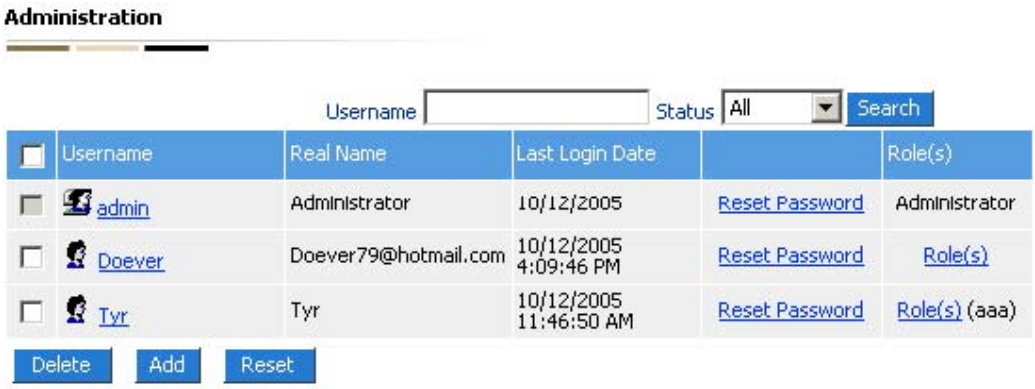
Language

Select user language

Click [Submit] to change language.

Administrator

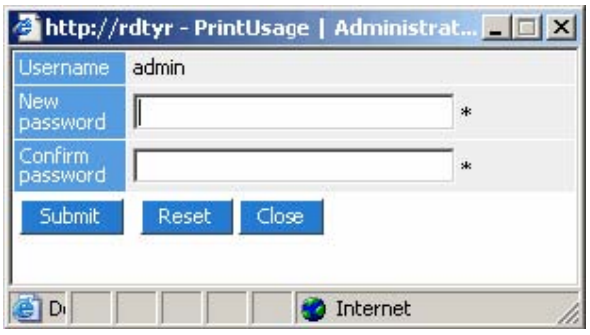
- Setup administrator's user name, password, role and password modification.



Note:

- Administrator cannot be removed.
- When user is not administrator, the default role is empty. New added administrator can log on manager site but without administration right.
- When adding role for administrator, the administrator will have the right of management.
- Click role management to manage user right.

- Click change password to pop up the password change dialog box.



After you successfully change the password, it will display change success notice.

- Click role to pop up user role setup dialog box.

Select related roles and click [Setup] to enable the right of the role to administrator. It is by Setup-->Role Management to setup.

- Click [Remove] to remove selected administrators.
- Click [Add] to add administrator.
- Click [Reset] to clear selection.

Roles

Role management lists all roles' names

- Click [Add] to add role.

  Add correct role name and description and then click [Submit] to complete. Role name is required. Click [Back] to return to the list.

- Select role and click [Remove] to remove selected role, which will influence Administrator right.
- Click [Setup right] to configure, change and update the right of roles. To change the role's right will lead to the change of the right of related Administrator.

Roles

Role Name:bbb

Permission	Role Description
All Server(s)	Manage All Server(s)
RDTYR	Manage RDTYR
HP DesignJet 600 (E/A0) by HP	Manage HP DesignJet 600 (E/A0) by HP
HP CLJ 8500 PCL	Manage HP CLJ 8500 PCL
HP Color LaserJet 4600 PCL 6	Manage HP Color LaserJet 4600 PCL 6
HP 2500C Series	Manage HP 2500C Series
HP 2000C	Manage HP 2000C
HP Color LaserJet 4550 PS	Manage HP Color LaserJet 4550 PS
hp LaserJet 1150 PCL 5e	Manage hp LaserJet 1150 PCL 5e
All Group(s)	Manage All Group(s)
Accounting	Manage Accounting
Customer Service	Manage Customer Service
Management	Manage Management
Marketing	Manage Marketing
PartTime	Manage PartTime
Print_Tyr	Manage Print_Tyr
System Integtation	Manage System Integtation
Web Designer	Manage Web Designer
Web Developer	Manage Web Developer
Computer	Manage Computer
Report	ViewReport

Set Reset Return Reset Rights

Following is an example of role application:

- In Options--->Administrator option, add an administrator--Admin_Role_Test.

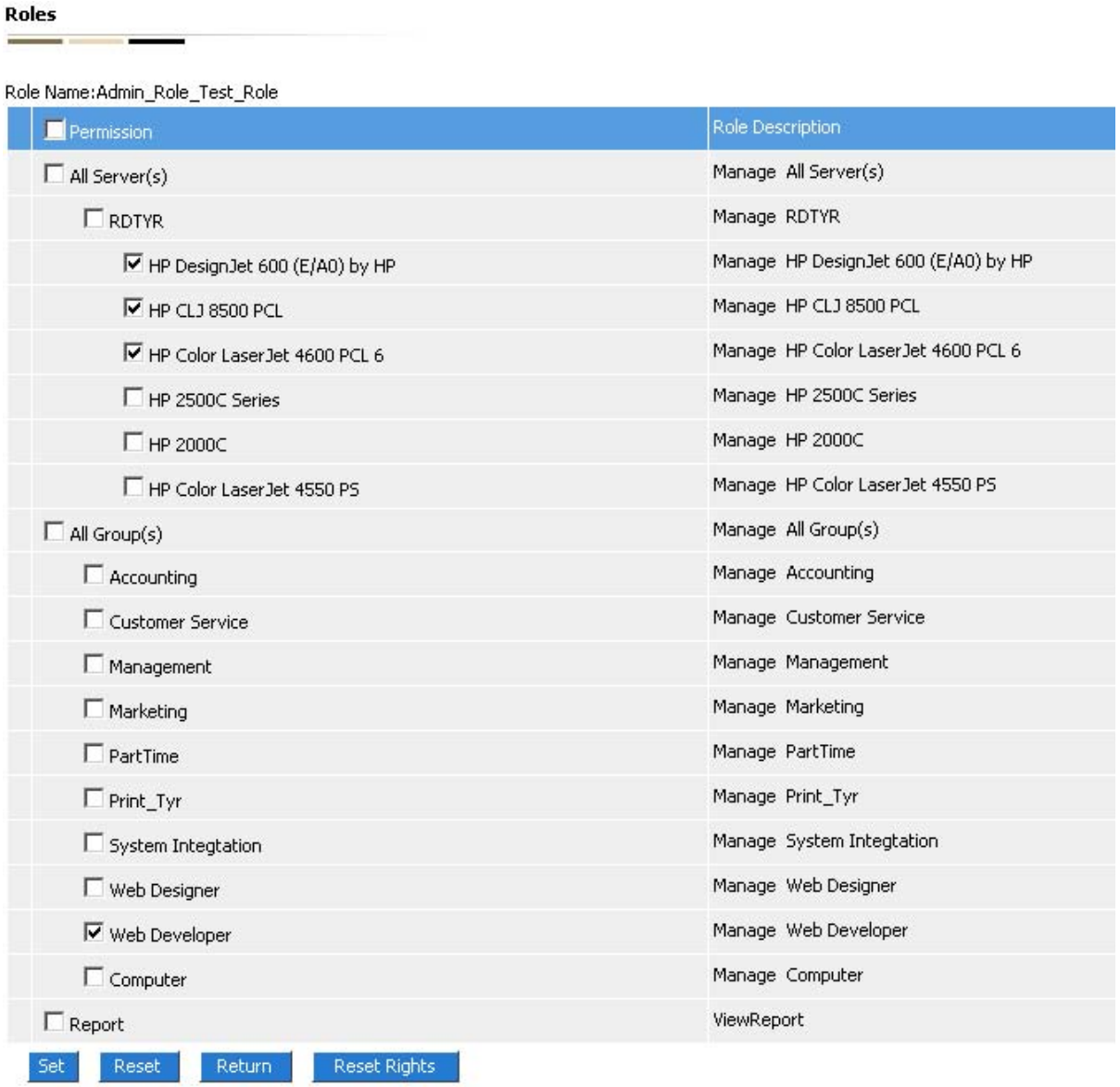
Administration

Username Status All Search

Username	Real Name	Last Login Date		Role(s)
admin	Administrator	10/12/2005	Reset Password	Administrator
Admin_Role_Test	Admin_Role_Test	10/12/2005 11:48:32 AM	Reset Password	Role(s)
Doever	Doever@hotmail.com	10/12/2005 11:47:12 AM	Reset Password	Role(s)
Tyr	Tyr	10/12/2005 11:46:50 AM	Reset Password	Role(s) (aaa,bbb)

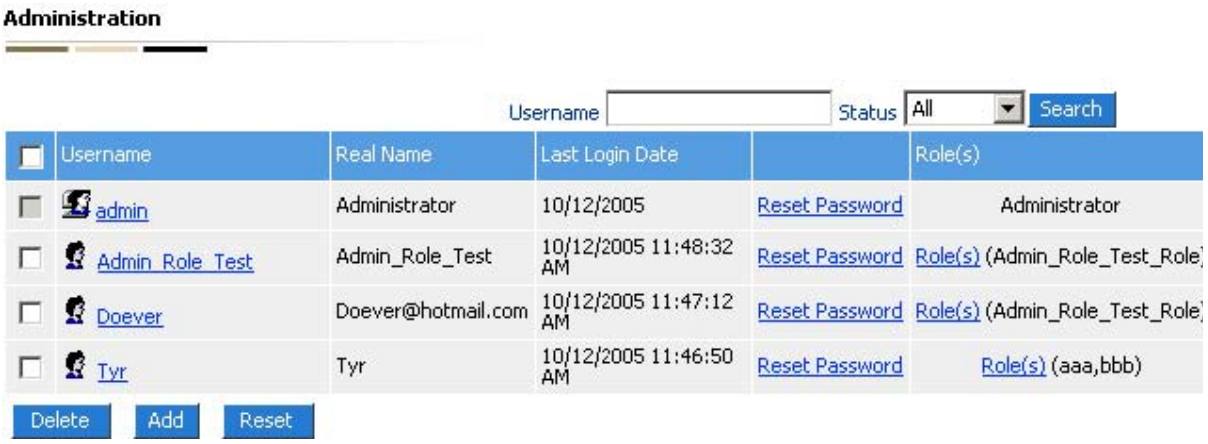
- In Options-->Role management, add a role--Admin_Role_Test_Role.

- Click [Setup Right] after Admin_Role_Test_Role to assign right.



Click [Setup] to complete role setup of Admin_Role_Test.

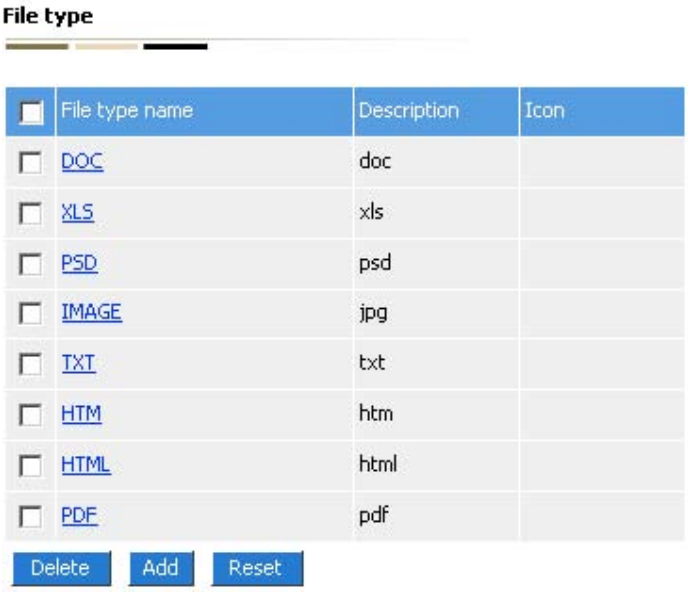
- In Options---> Administrator Setup, click [Affiliated Role] after Admin_Role_Test to set user role. User will own the role's right.



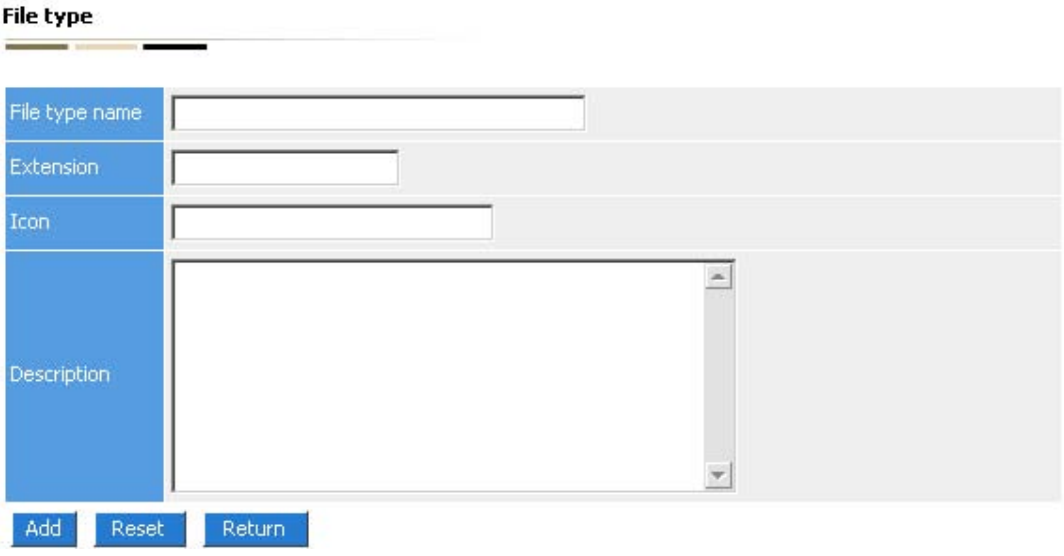
- Log out system and log on with Admin_Role_Test.
- Click Group to obtain following list.
  - Click Group to obtain following list.

Click All Printers to obtain following statistics.

File Types



- Click [Remove] to remove all selected file types.
- Click [Add] to add file types.



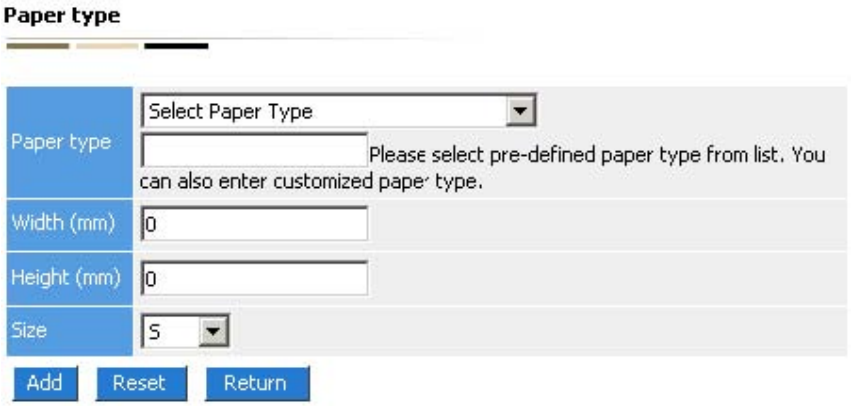
File type name, suffix, icon and description can be specified.

- Click [Reset] to clear all selection.

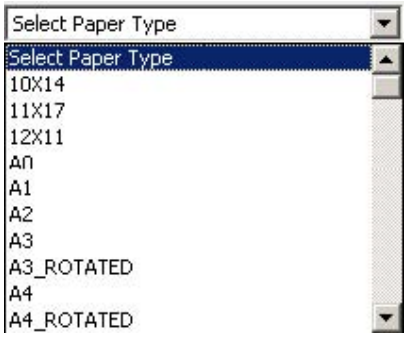
Note: file type change will influence Server---File Types, Printer----File Types, User Group----File Types and User---File Types.

Paper Types

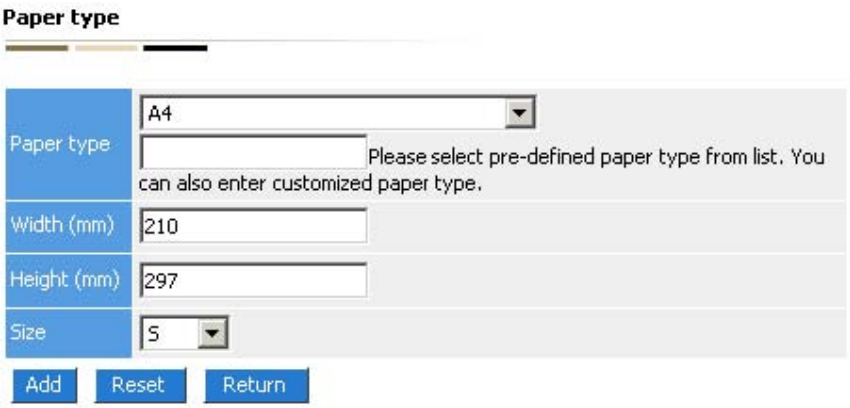
- Click [Add] to add new paper types.



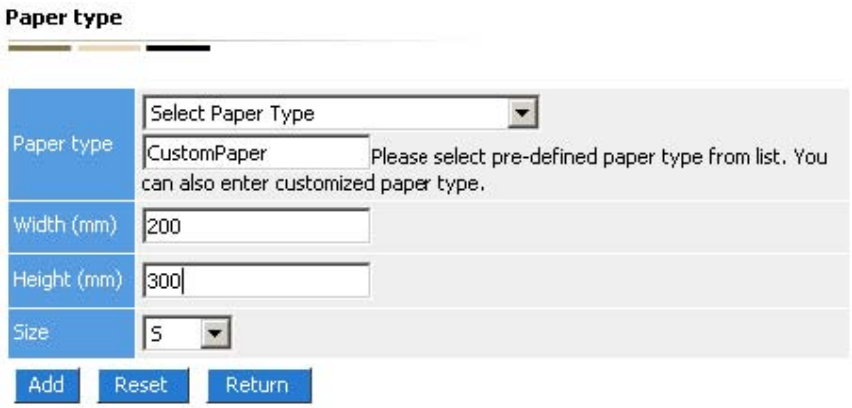
File type includes all common paper types.



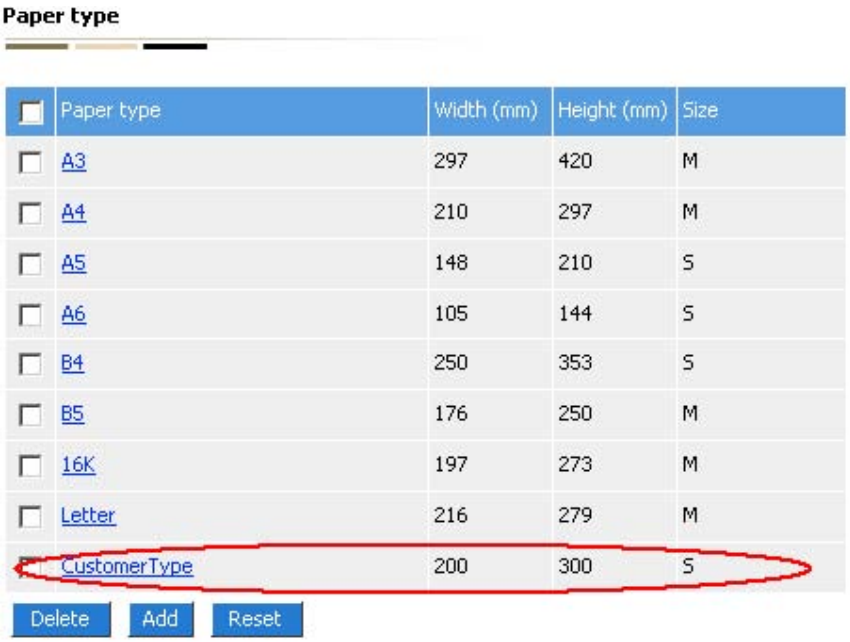
When selecting a common paper type such as A4, paper width and height will change automatically.



User can self define the paper size, for example user defines a paper size as 200x300, name Custom Paper and grade M.



Click [Add] to return to paper type list.



- Click [Remove] to remove paper types selected by user.
- Click [Reset] to clear all selection.

Note: Adding paper types will also affect printer charge. Please refer to Server Charge Setup, Printer Charge Setup and Paper Type of Print Log.

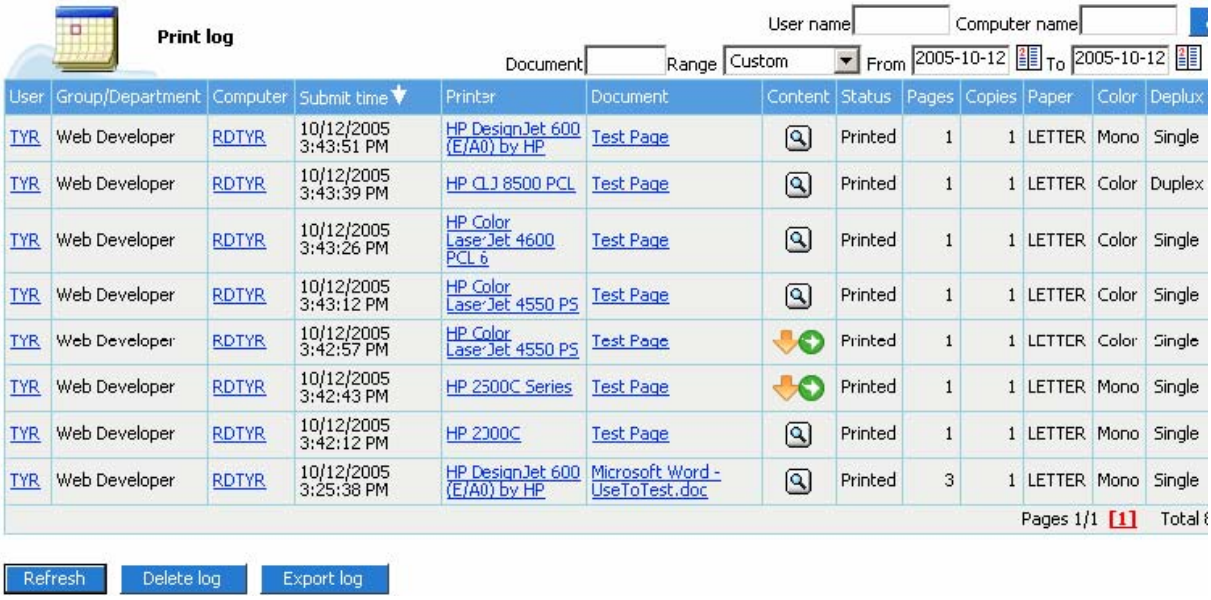
Data Maintenance

This function is for removing print log, system log, recorded print content images, and recalculating the amount.

Note:

- Before removing, please confirm operation and the time period.
- When clicking [Recalculating amount according to current log], the user print charge, pages and tasks amount will be changed.

Print Log

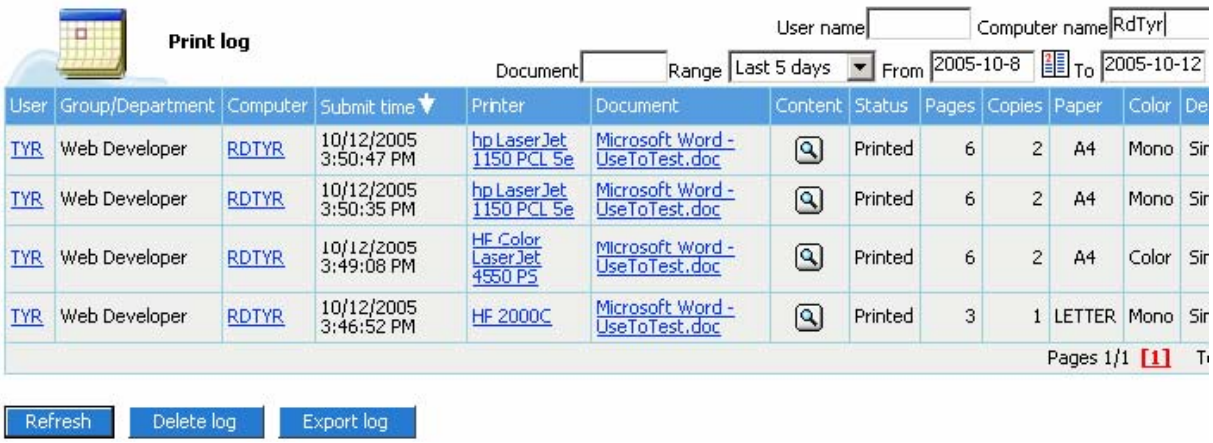


- Print log records all printing history by system.
- View report from selected date range.
- Click on user name and computer name to see print log from user and computer.
- Click on document to see detail.
- Click [Refresh] to reload the page.
- Click [Delete log] to delete listed log.
- After remove log file, the Recalculating amount according to current log in Data Maintenance, the total charge of User group/Department, User, Server and Printer status will be changed.

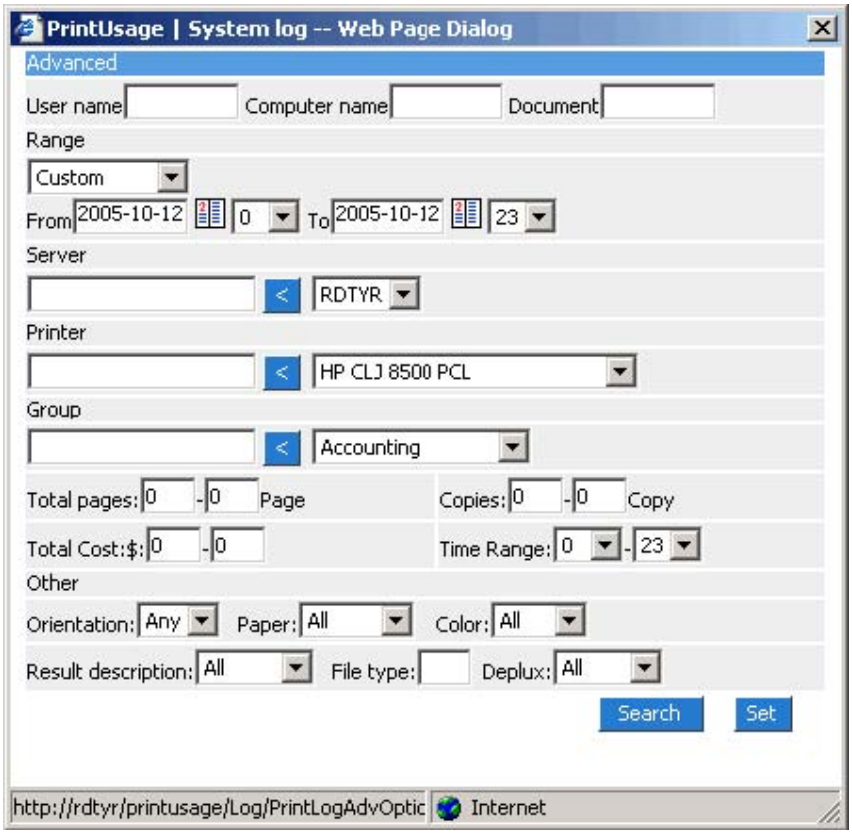
Log Query

Search by file name, user name or computer name.

File name, user name or computer name supports linking match.



Click [Advanced Options] to pop up advanced options dialog window.



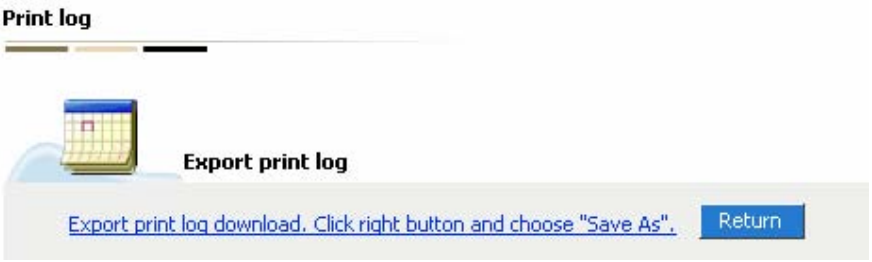
Advanced options enables user to search log by user name, computer name, document, time range, server, printer and group.

Note:

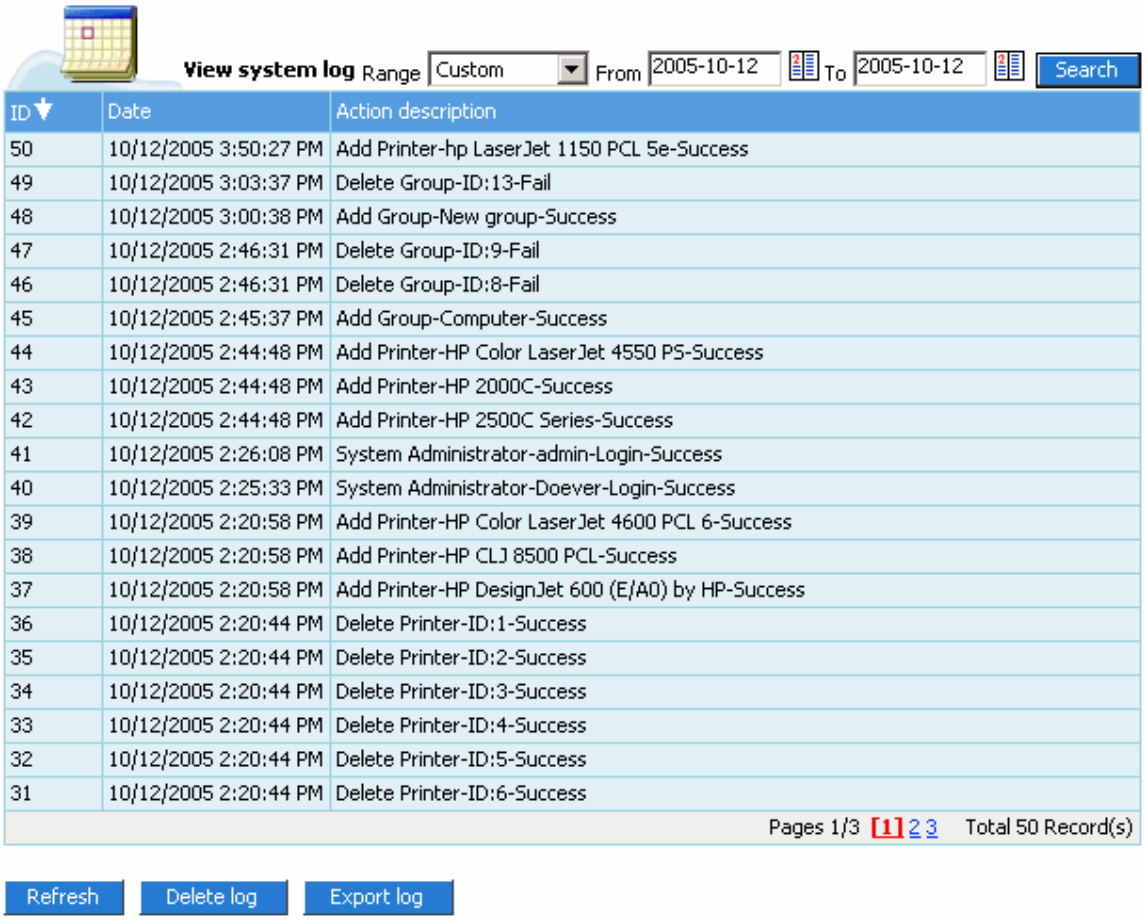
- User must click to confirm the drop-down box.
- The relationship with all conditions use as "and". If blank, the condition will be ignored.
- If page is displayed Printer, User, Server and Group link,the search box will disable.
- Click [Delete log] to remove all logs.
- Click to save print content into image file in Tiff format.
- Click to transfer print task to printer. If user A print task B of 5 pages on Prtinter_1 of PrintServer_A three month ago, now he clicks and confirms print, and task B of 5 pages will be re-transferred to Prtinter_1 of PrintServer_A to print.

Export print log

Click on export records as xls file for download.



System Log


View system log Range Custom From 2005-10-12 To 2005-10-12 Search
ID Date Action description
50 10/12/2005 3:50:27 PM Add Printer-hp LaserJet 1150 PCL 5e-Success
49 10/12/2005 3:03:37 PM Delete Group-ID:13-Fail
48 10/12/2005 3:00:38 PM Add Group-New group-Success
47 10/12/2005 2:46:31 PM Delete Group-ID:9-Fail
46 10/12/2005 2:46:31 PM Delete Group-ID:8-Fail
45 10/12/2005 2:45:37 PM Add Group-Computer-Success
44 10/12/2005 2:44:48 PM Add Printer-HP Color LaserJet 4550 PS-Success
43 10/12/2005 2:44:48 PM Add Printer-HP 2000C-Success
42 10/12/2005 2:44:48 PM Add Printer-HP 2500C Series-Success
41 10/12/2005 2:26:08 PM System Administrator-admin-Login-Success
40 10/12/2005 2:25:33 PM System Administrator-Doever-Login-Success
39 10/12/2005 2:20:58 PM Add Printer-HP Color LaserJet 4600 PCL 6-Success
38 10/12/2005 2:20:58 PM Add Printer-HP CLJ 8500 PCL-Success
37 10/12/2005 2:20:58 PM Add Printer-HP DesignJet 600 (E/A0) by HP-Success
36 10/12/2005 2:20:44 PM Delete Printer-ID:1-Success
35 10/12/2005 2:20:44 PM Delete Printer-ID:2-Success
34 10/12/2005 2:20:44 PM Delete Printer-ID:3-Success
33 10/12/2005 2:20:44 PM Delete Printer-ID:4-Success
32 10/12/2005 2:20:44 PM Delete Printer-ID:5-Success
31 10/12/2005 2:20:44 PM Delete Printer-ID:6-Success
Pages 1/3 [1] 2 3 Total 50 Record(s)
Refresh
Delete log
Export log

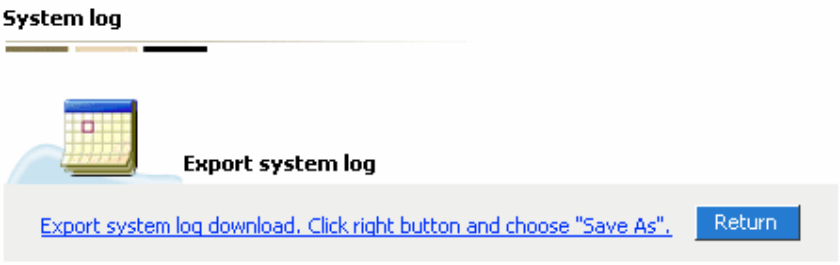
View System Log

System log records system data change history monitored by system, including adding, changing and removing of datum and administrator logon.

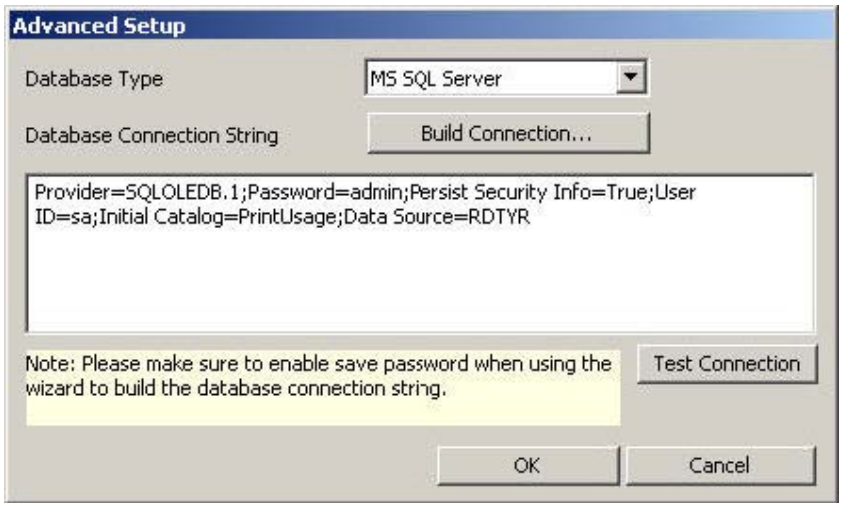
It is available to view period system record.

Click [Remove current log] button to remove all records up to inquiry condition.

Click [Export current log to] button to export records up to inquiry condition as Xls file for downloading.



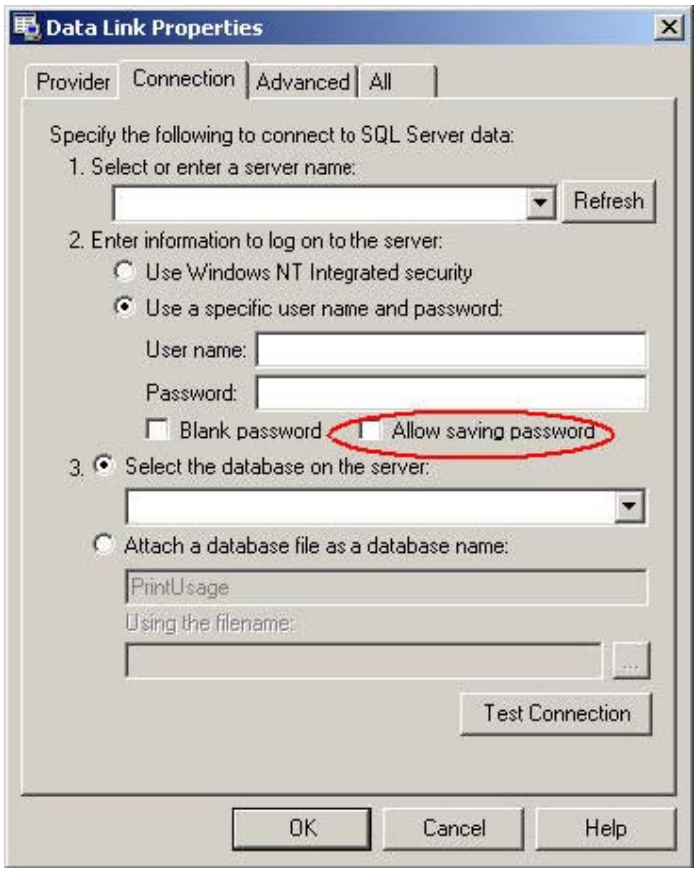
Advanced Setup


Advanced Setup
Database Type
MS SQL Server
Database Connection String
Build Connection...
Provider=SQLOLEDB.1;Password=admin;Persist Security Info=True;User ID=sa;Initial Catalog=PrintUsage;Data Source=RDTYR
Note: Please make sure to enable save password when using the wizard to build the database connection string.
Test Connection
OK
Cancel

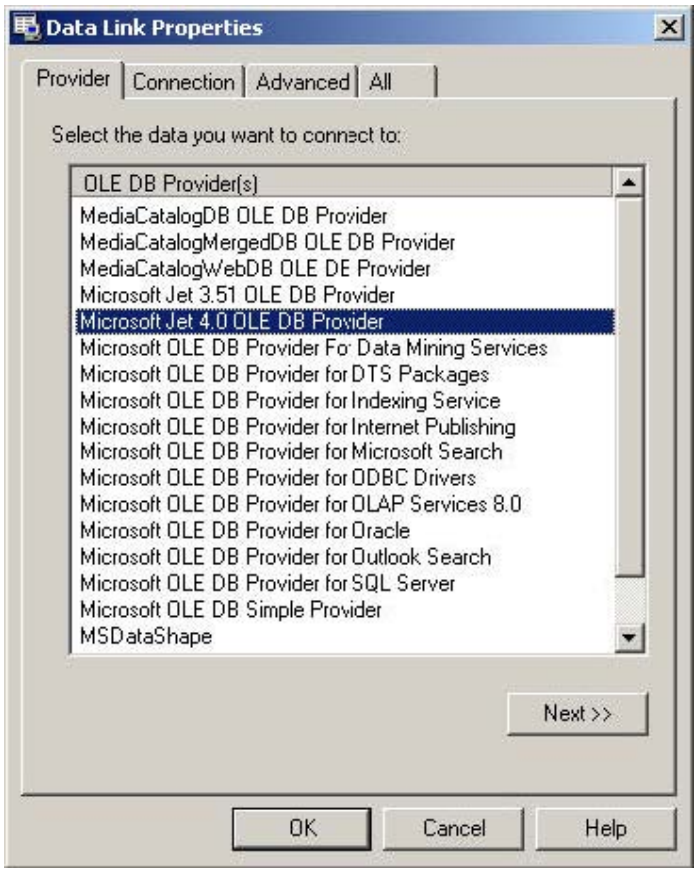
Database Type. Compatible with four types of databases: MS Access, MS SQL Server, MySQL and Oracle. MS Access is recommended for trial version. The registered user can have different databases option.

Database Connection String. Input database connection string in the connection box. You may also click "connection string", system will help you create new database connection wizard. Click on "test connection" after connection string created. If connection "failure", it could be database username or password error.

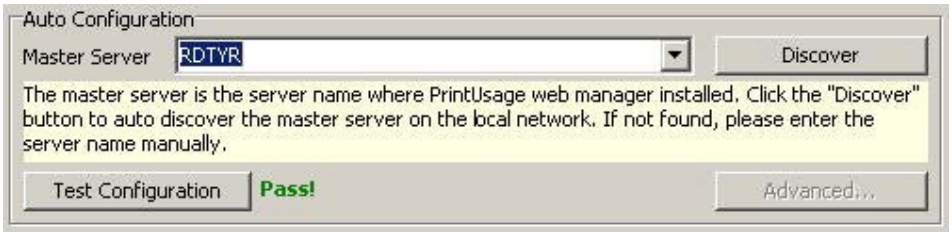
Notice: Please check "Allow save password" in the data connection attribute, otherwise database connection string will not run normally.



MS Access User Notice: Please use Microsoft Jet 4.0 OLE/DB Provider as OLE DB provider in order to get best system performance and compatibility. We recommend you use MDB files from local computer. Do not use it from the network, it will decrease system performance.

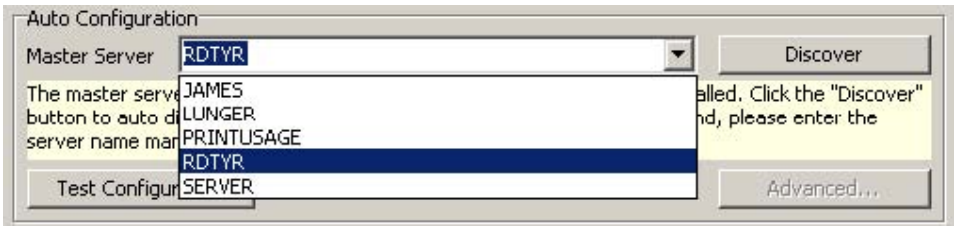

Data Link Properties
Provider
Connection
Advanced
All
Select the data you want to connect to:
OLE DB Provider(s)
MediaCatalogDB OLE DB Provider
MediaCatalogMergedDB OLE DB Provider
MediaCatalogWebDB OLE DE Provider
Microsoft Jet 3.51 OLE DB Provider
Microsoft Jet 4.0 OLE DB Provider
Microsoft OLE DB Provider Fo Data Mining Services
Microsoft OLE DB Provider for DTS Packages
Microsoft OLE DB Provider for Indexing Service
Microsoft OLE DB Provider for Internet Publishing
Microsoft OLE DB Provider for Microsoft Search
Microsoft OLE DB Provider for ODBC Drivers
Microsoft OLE DB Provider for OLAP Services 8.0
Microsoft OLE DB Provider for Oracle
Microsoft OLE DB Provider for Outlook Search
Microsoft OLE DB Provider for SQL Server
Microsoft OLE DB Simple Provider
MSDataShape
Next >>
OK
Cancel
Help

Auto Configuration


Auto Configuration
Master Server
RDTYR
Discover
The master server is the server name where PrintUsage web manager installed. Click the "Discover" button to auto discover the master server on the local network. If not found, please enter the server name manually.
Test Configuration
Pass!
Advanced...

Main Controlling Server:

Install server from PrintUsage managing webserver. System automatically obtain settings from managing webserver, the computer name and IP address will input into the managing server.



The list shows server names from the main controlling servers.

You can use main controlling server without settings, if they are installed on the same server. The following cases are exception:

Example one. Managing website is installed on the server under default circumstance, computer using Server as its name can not visit managing server. **Solution** input IP address, such as 192.168.0.1

Example two. Managing server is installed on the server rather than default website, managing website url as http://Server:88/PrintUsage/. **Solution:** input Server:88 or http://Server:88/PrintUsage/.

Example three. When administrator sets PrintUsage website manually, managing websiteurl as http://server:888/print/. **Solution:** input http://server:888/print/.

Testing Settings

Testing settings will show your test setting work or not, and test result will also be display. If test fail, the advanced setting button will be display, here you can set database type and connection string again. Refer advanced settings for the details.

Startup

Startup
Start PrintUsage Service at system startup
Launch PrintUsage Taskbar Icon after login
Initialize After MS SQL Goes Online
Initialize After MySQL Goes Online

Auto-start Printing Monitoring Service

If you choose the item, auto-start printing monitoring service will auto start when windows operating system starts. The function of printing monitoring service is to monitor printing task of local computer, control start or stop of printing task according to its settings and record printing task into database.

Auto-start Program of Printing Monitoring Taskbar

If you choose the item, program of printing monitoring taskbar will operate with user's logging. Program of printing monitoring taskbar is the one to help user set managing monitoring service, and automatically runs after user's logging under default circumstance.

Start after MS SQL Server's Operation on the Local Computer

Startup of printing monitoring service rely on database support. Printing monitoring service fails if without linking with database, because startup of MS SQL Server is behind printing monitoring service when system start up. Therefore, if you encounter this problem, you can tick off corresponding choice to guarantee startup of printing monitoring service after database startup and avoid mistake. There is no need to setup if you are using MS Access or on the remote computer.

Start after Mysql Startup on the Local Computer

Startup of printing monitoring service rely on database support. Printing monitoring service fails without linking with database, because startup of Mysql Server is behind monitoring service when system start up. Therefore, if you encounter this problem, you can tick off corresponding choice to guarantee startup of printing monitoring service after database startup and avoid mistake. There is no need to setup if you are using MS Access or on the remote computer.

View Events Log of Printing Monitoring Service

Running printing monitoring service will write printing events, printing task and error into system log. System log may fully display operation history from printing monitoring service. Events log offer the most effective way to trace system error.

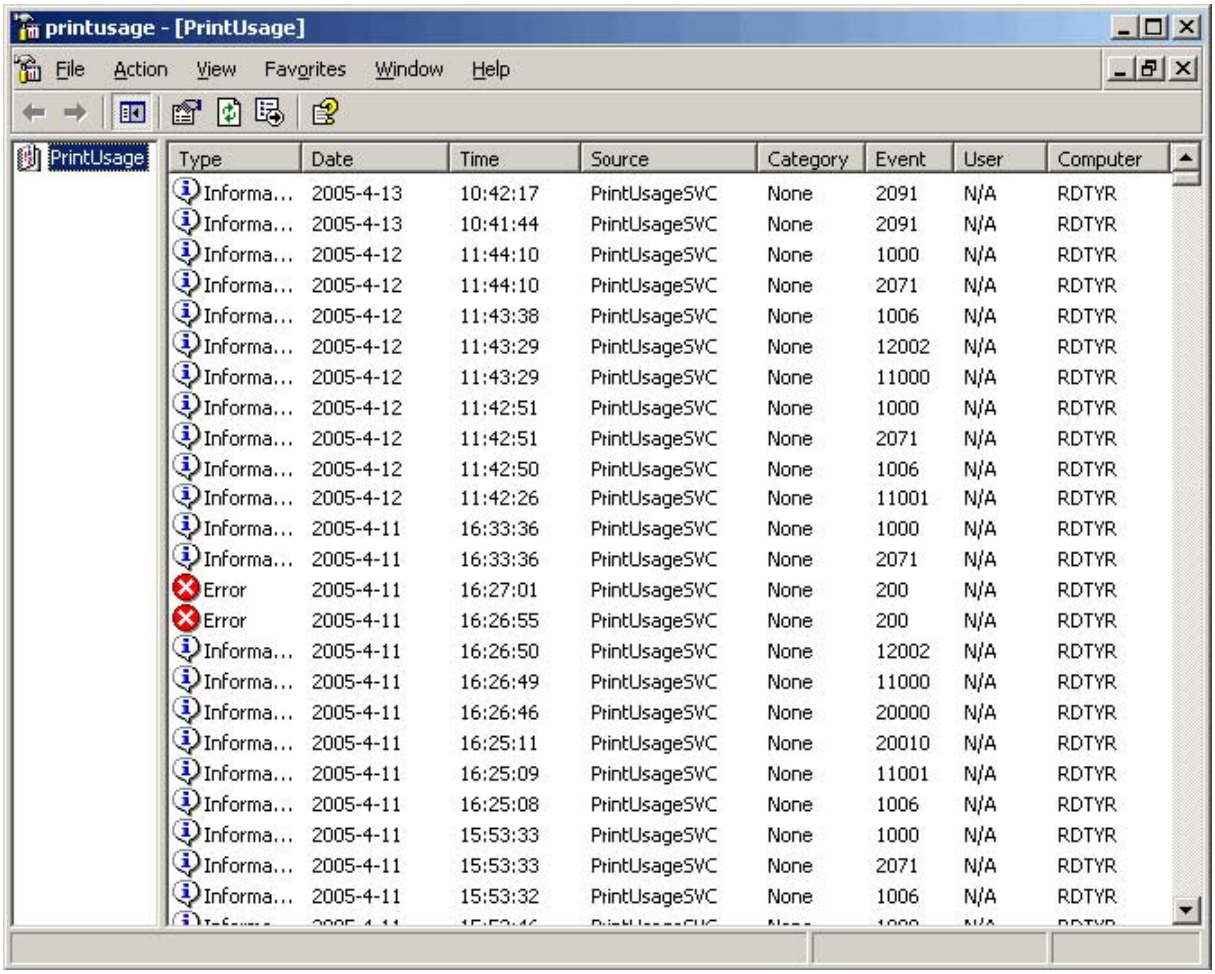
View Events Log of Printing Monitoring Service

After right click icon in the system tray, you will see pop-up view window of events log, then choosing "events log" from the menu.

You may view events log from beginning menu->program->managing tool->events viewer.

Users of Windows 2000/XP/2003

Printing monitoring event log appears on single page of " printing monitoring".

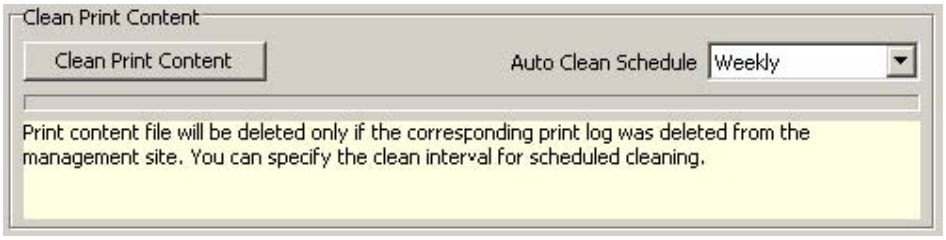


Type	Date	Time	Source	Category	Event	User	Computer
Informa...	2005-4-13	10:42:17	PrintUsageSVC	None	2091	N/A	RDTYR
Informa...	2005-4-13	10:41:44	PrintUsageSVC	None	2091	N/A	RDTYR
Informa...	2005-4-12	11:44:10	PrintUsageSVC	None	1000	N/A	RDTYR
Informa...	2005-4-12	11:44:10	PrintUsageSVC	None	2071	N/A	RDTYR
Informa...	2005-4-12	11:43:38	PrintUsageSVC	None	1006	N/A	RDTYR
Informa...	2005-4-12	11:43:29	PrintUsageSVC	None	12002	N/A	RDTYR
Informa...	2005-4-12	11:43:29	PrintUsageSVC	None	11000	N/A	RDTYR
Informa...	2005-4-12	11:42:51	PrintUsageSVC	None	1000	N/A	RDTYR
Informa...	2005-4-12	11:42:51	PrintUsageSVC	None	2071	N/A	RDTYR
Informa...	2005-4-12	11:42:50	PrintUsageSVC	None	1006	N/A	RDTYR
Informa...	2005-4-12	11:42:26	PrintUsageSVC	None	11001	N/A	RDTYR
Informa...	2005-4-11	16:33:36	PrintUsageSVC	None	1000	N/A	RDTYR
Informa...	2005-4-11	16:33:36	PrintUsageSVC	None	2071	N/A	RDTYR
Error	2005-4-11	16:27:01	PrintUsageSVC	None	200	N/A	RDTYR
Error	2005-4-11	16:26:55	PrintUsageSVC	None	200	N/A	RDTYR
Informa...	2005-4-11	16:26:50	PrintUsageSVC	None	12002	N/A	RDTYR
Informa...	2005-4-11	16:26:49	PrintUsageSVC	None	11000	N/A	RDTYR
Informa...	2005-4-11	16:26:46	PrintUsageSVC	None	20000	N/A	RDTYR
Informa...	2005-4-11	16:25:11	PrintUsageSVC	None	20010	N/A	RDTYR
Informa...	2005-4-11	16:25:09	PrintUsageSVC	None	11001	N/A	RDTYR
Informa...	2005-4-11	16:25:08	PrintUsageSVC	None	1006	N/A	RDTYR
Informa...	2005-4-11	15:53:33	PrintUsageSVC	None	1000	N/A	RDTYR
Informa...	2005-4-11	15:53:33	PrintUsageSVC	None	2071	N/A	RDTYR
Informa...	2005-4-11	15:53:32	PrintUsageSVC	None	1006	N/A	RDTYR

License

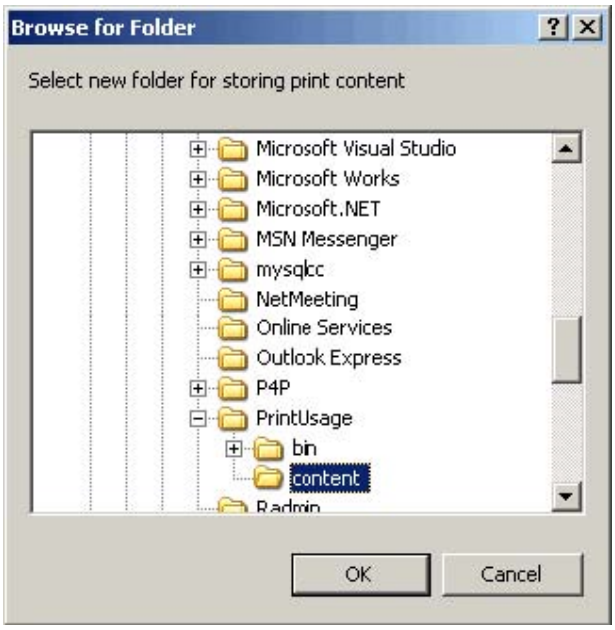
You may see " the software is licensed to " after right clicking managing program of system tray --> system settings. You may also see the name of registered company or individual. The ending trial date will be indicated on the " the software is licensed to ", if user does not buy the software license.

Save Print Content


Clean Print Content
Clean Print Content
Auto Clean Schedule
Weekly
Print content file will be deleted only if the corresponding print log was deleted from the management site. You can specify the clean interval for scheduled cleaning.

Saved Path of Printed Content

Saved file to folder for user printed content. You will get the following dialog box to choose saved address of printed content after clicking " modify saved index of printed content".



User saved content can be modified if need.

Saved path of user printed content will be changed, user historical data will also be transferred to new saved path and original data will be removed.

Eliminate Printed Content:

Printed content will not be deleted until corresponding printed log managing website deleted or removed. Set time interval to automatically remove printed content files from server.

Start/Stop Printing Monitoring Service

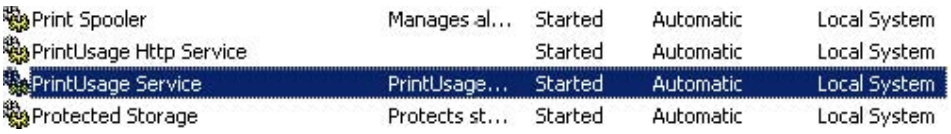
Start/stop printing monitoring service from the printing monitoring tray

Double click on the icon in the system tray to open system setup page. You can start, stop and restart printing monitoring service in the service control panel. Signal light on the left indicates the running state of current monitoring service.

You can also right click icon on the system tray and choose "start service", " stop service", " restart service " on the menu to start/stop/restart monitoring service.

Start/Stop Printing Monitoring Service from System Control Panel:

For Windows 2000/xp/2003 user: printing monitoring service can be started, stopped and restarted from service manager, menu->program->managing tools->service->PrintUsage Pro Service.


Print Spooler Manages al... Started Automatic Local System
PrintUsage Http Service Started Automatic Local System
PrintUsage Service PrintUsage... Started Automatic Local System
Protected Storage Protects st... Started Automatic Local System

Start/Stop Printing Monitoring Service from Program Menu:

You can start, stop and restart printing monitoring service on the program menu, menu->program->printing monitor->printing monitoring service.

PrintUsage Data Upgrading Tool

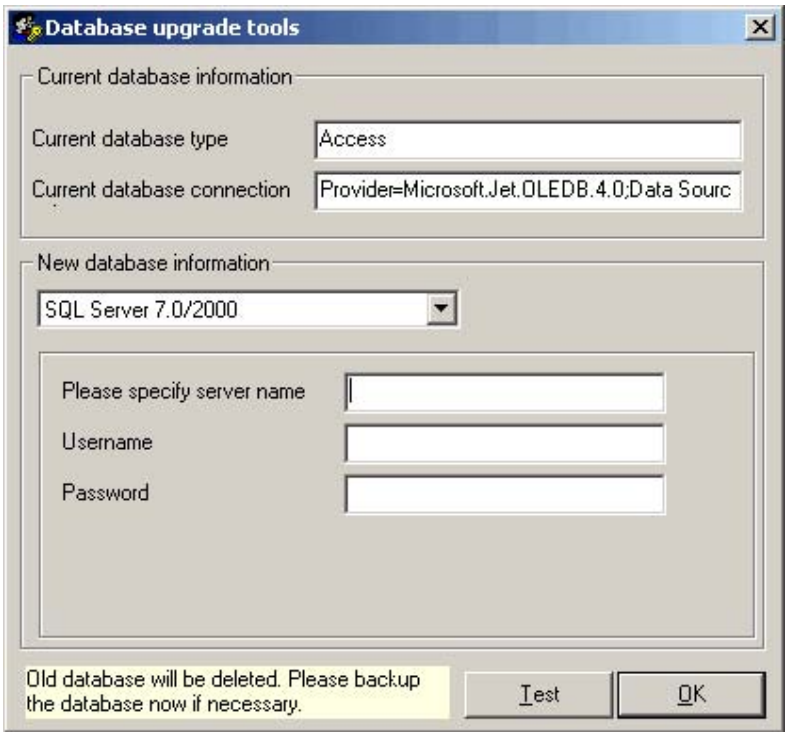
Main function:

PrintUsage compatible with MS Access, MS SQL Server 7.0/2000, Oracle and MySQL.

Database upgrade tool help you transfer data between different types of database.

Operation

Open the following page from program menu PrintUsage Version Pro/Enterprise -> Data Upgrading Tool.



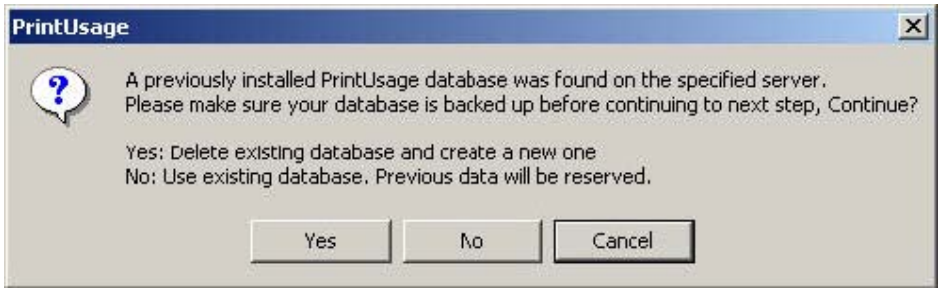
"Current Database Information" indicates current database type and its connection string.

"New Database Information" setup new database type and server, user name and password

"Test" use to test the database connection.

Notice: Don't use source data and destination data in one database, it may cause data lost!

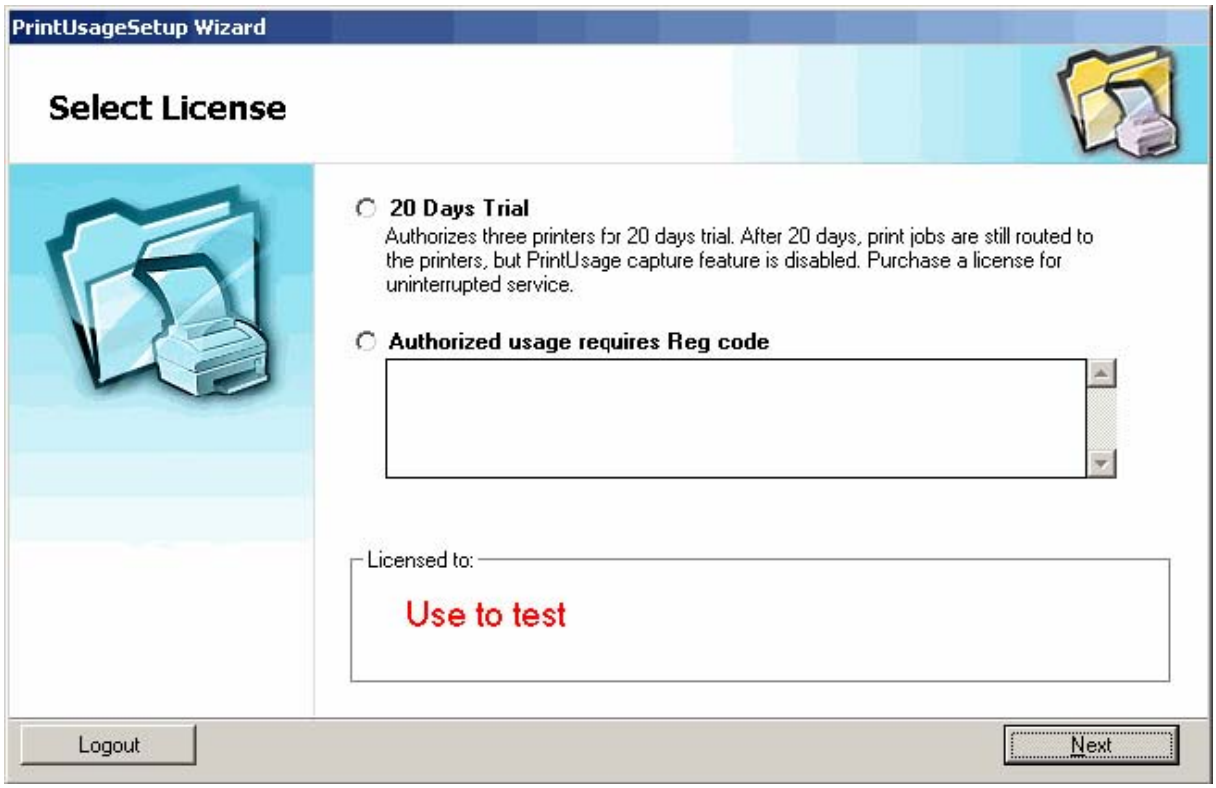
After you press "Confirm" button, the system warning message appear if old database exist.


PrintUsage
A previously installed PrintUsage database was found on the specified server.
Please make sure your database is backed up before continuing to next step, Continue?
Yes: Delete existing database and create a new one
No: Use existing database. Previous data will be reserved.
Yes
No
Cancel

Click "Yes", it will create the new database and old database will be delete.

Run Setup Wizard

Begin --> Program--> PrintUsage 2.1 Enterprise Edition --> Run setup wizard.


PrintUsageSetup Wizard
Select License
20 Days Trial
Authorizes three printers for 20 days trial. After 20 days, print jobs are still routed to the printers, but PrintUsage capture feature is disabled. Purchase a license for uninterrupted service.
Authorized usage requires Reg code
Licensed to:
Use to test
Logout
Next

Next Step: Database Type and Connecting Setting

PrintUsage Data Upgrading Tool

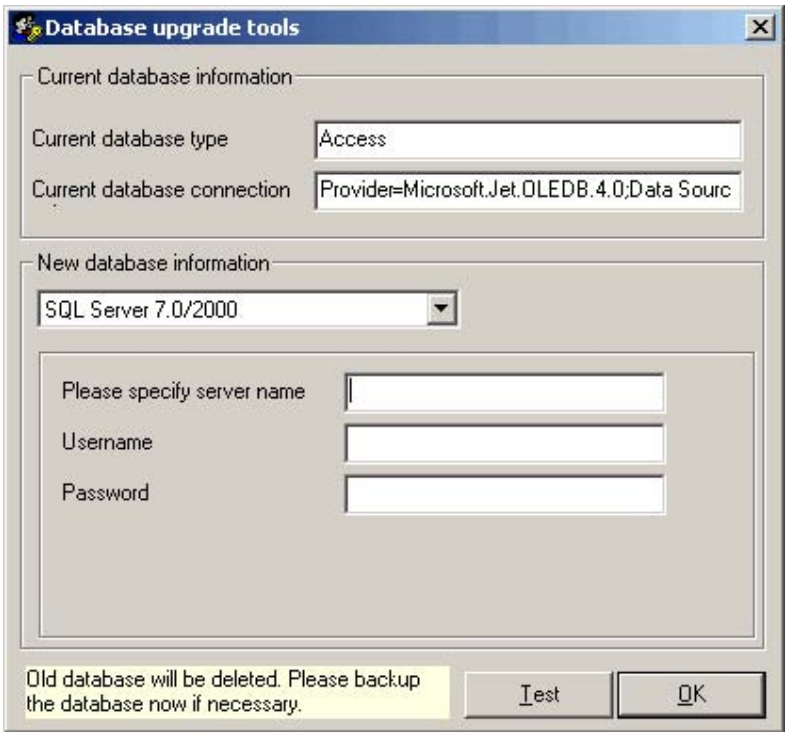
Main function:

PrintUsage compatible with MS Access, MS SQL Server 7.0/2000, Oracle and MySQL.

Database upgrade tool help you transfer data between different types of database.

Operation

Open the following page from program menu PrintUsage Version Pro/Enterprise -> Data Upgrading Tool.



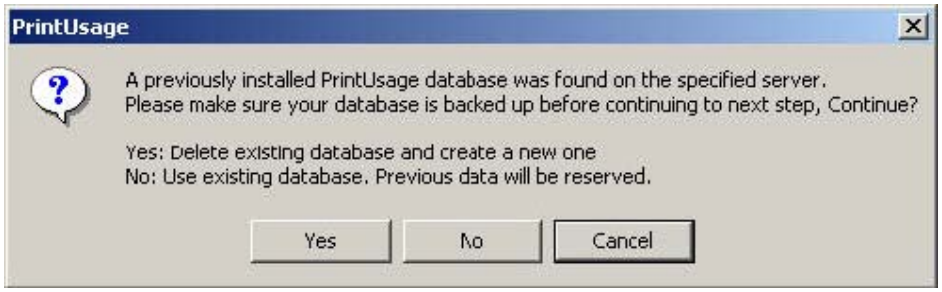
"Current Database Information" indicates current database type and its connection string.

"New Database Information" setup new database type and server, user name and password

"Test" use to test the database connection.

Notice: Don't use source data and destination data in one database, it may cause data lost!

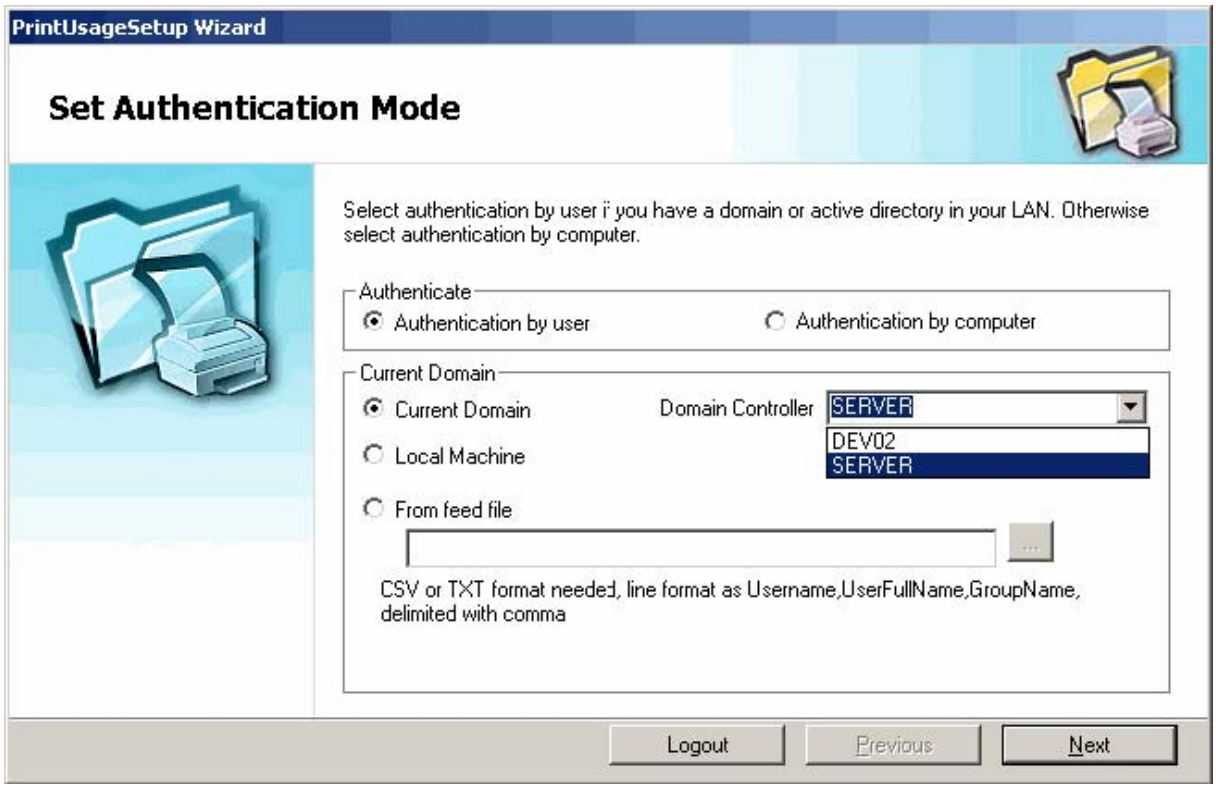
After you press "Confirm" button, the system-warning message appear if old database exist.


PrintUsage
A previously installed PrintUsage database was found on the specified server.
Please make sure your database is backed up before continuing to next step, Continue?
Yes: Delete existing database and create a new one
No: Use existing database. Previous data will be reserved.
Yes
No
Cancel

Click "Yes", it will create the new database and old database will be deleted.

User Synchronous Tool

Begin-->Program-->PrintUsage 2.1 Enterprise Edition --> User Synchronous Tool.



Next Step: Choose Inputted User Groups

FAQs:

Q: Print monitoring service couldn't start.

Several reasons could lead to the Print Monitoring Service startup failure and the common reasons are incorrect installation, database connection failure, trial version expiration or software dog detection failure. Please follow the steps below to find the solutions:

All operations will be recorded in the Event Log. To check log can find the main error reasons mostly. Right click on the tray icon on the bottom right of the screen-->Event Log.

1. Right click on the tray icon on the bottom right of the screen-->select system settings-->test settings. If the testing could success, that means database connection is OK; if it fails, the possible reasons could be:

Reason	Diagnosis	Solutions
Fail to connect to the main server is caused by the firewall on the print server or the dominating server which blocks the communication.	Test Settings displays failure. Check Event Log to see if there is a following Error No. 5020: An unknown error occurs in system module CommonU.GetConfigFromMasterServer, error message is AppUrl=http://JAMES:8200/setup Socket Error # 10061 Connection refused.	Turn off the firewall, or open the TCP port 8100, 8200 UDP port 8201-8209
PrintUsage Application Service on Web manager site does not start		Start the Webmanager server PrintUsage Application service
Dominating server's computer name cannot be recognized.		Input dominating server's IP address, or add the corresponding IP address of the dominating server to HOST file.
There are problems connecting to the database server.	Test settings displays failure. Check Event Log to see if there is an error No. 4330 and analyze the problem according to the error message.	Make sure database service started If database is MSSQL, make sure authorization mode is SQL Server and Windows mode
Database server name could not be correctly resolved.		Use IP address as the database server name when installing manager server. Add the corresponding IP address of the dominating server to local HOST file.

2. Check for error No. 204 in the Event Log:

It is caused by connection failure between Print Monitoring Service and database. Please follow step 1 to find the solution.

3. Check for error No. 200 in the Event Log

The error is related to software license and the possible reasons are:

Reason	Diagnosis	Solutions

Trial version expiration	License displays trial version expired. No. 200 log information is: TRIAL_USE_EXPIRED or LICENSE_EXPIRED_REGCODE	Purchase the full version.
Incorrect installation	Trial version Date/Time displayed in license area is some date of 2002 or 2003. It will randomly change to another date after clicking Apply button. Message of error No. 200 in Event Log is: CANNOT_GET_REGCODE_FROM_DB	Reinstall the system and make sure the installation is successful. It takes about 10 to 30 minutes to import users for large domain. Don't cancel during the process.
Software dog detection failure	Only occurs in office version Message of error No. 200 in Event Log is: NO_DONGLE_DETECTED	Make sure software dog is plugged into the USB port. You can plug the USB software dog in and restart PrintUsage Application service

Q: What is the difference between professional version and enterprise version? Which version should I choose?

Professional version focuses on printing cost control, and enterprise version focuses on not only printing cost control, but also security management of the printing information.

Comparison	Professional	Enterprise
Monitoring and recording	******	******
Printing charges and control	******	******
Web report and event log	******	******
Multi database type support Access, MSSQL, MYSQL, Oracle	******	******
Monitoring print content and save as image for review		******
Save print content and reprint		******
Multilevel administration privilege and roles definition		******
Automatic synchronization between user accounts and domain accounts		******
Manual print sign function		******
User account balance report and history record printing		******
Group statistic collection		******

Q: How to deal with "Test configuration" failure after installation of print server?

<table>
<tr><th>Reason</th><th>Diagnosis</th><th>Solutions</th></tr>
<tr><td>Fail to connect to the main server is caused by the firewall on the print server or the dominating server which blocks the communication.</td><td rowspan="3">Test Settings displays failure.

Check Event Log to see if there is a following Error No. 5020:

An unknown error occurs in system module CommonU.GetConfigFromMasterServer, error message is AppUrl=http://JAMES:8200/setup Socket Error # 10061 Connection refused.</td><td>Turn off the firewall, or open the TCP port 8100, 8200

UDP port 8201-8209</td></tr>
<tr><td>PrintUsage Application Service on Web manager site does not start</td><td>Start the Web manager server PrintUsage Application service</td></tr>
<tr><td>Dominating server's computer name cannot be recognized.</td><td>Input dominating server's IP address, or add the corresponding IP address of the dominating server to HOST file.</td></tr>
<tr><td>There are problems connecting to the database server.</td><td rowspan="2">Test settings displays failure.

Check Event Log to see if there is an error No. 4330 and analyze the problem according to the error message.</td><td>Make sure database service started
If database is MSSQL, make sure authorization mode is SQL Server and Windows mode</td></tr>
<tr><td>Database server name could not be correctly resolved.</td><td>Use IP address as the database server name when installing manager server.
Add the corresponding IP address of the dominating server to local HOST file.</td></tr>
</table>

Q: My manager server, print server and network printer do not belong to the same subnet. How do I install?

The networking requirement for PrintUsage is only TCP and database access and theoretically it does not matter if it's overcross network installation. PrintUsage can be installed and operate as long as TCP/IP and database access ports are not blocked. The following should be noticed during the installation over different subnet

- When installing print server, if Web dominating server is in another network segment, print monitoring service would not find the dominating server. You should enter the machine name or IP address for the dominating server in system configuration.

Q: I have manager site running on machine A. On machine B, I enter A as the master server, but "Test Configuration" always fails. Why?

1. Please first make sure the manager site on A is running and can be visited from http://A/printusage

2. If you have manually configured the manager site running on a different port, say http://A:800/printusage, you should use the full URL in the Master Server, that is http://A:800/printusage

3. If you have specified another name of printusage virtual directory, say http://A/print, you should use the full URL in the Master Server, that is http://A/print

4. Please make sure you are using MS SQL Server or MySQL as database on A. MS Access is not supported in this distributed environment.

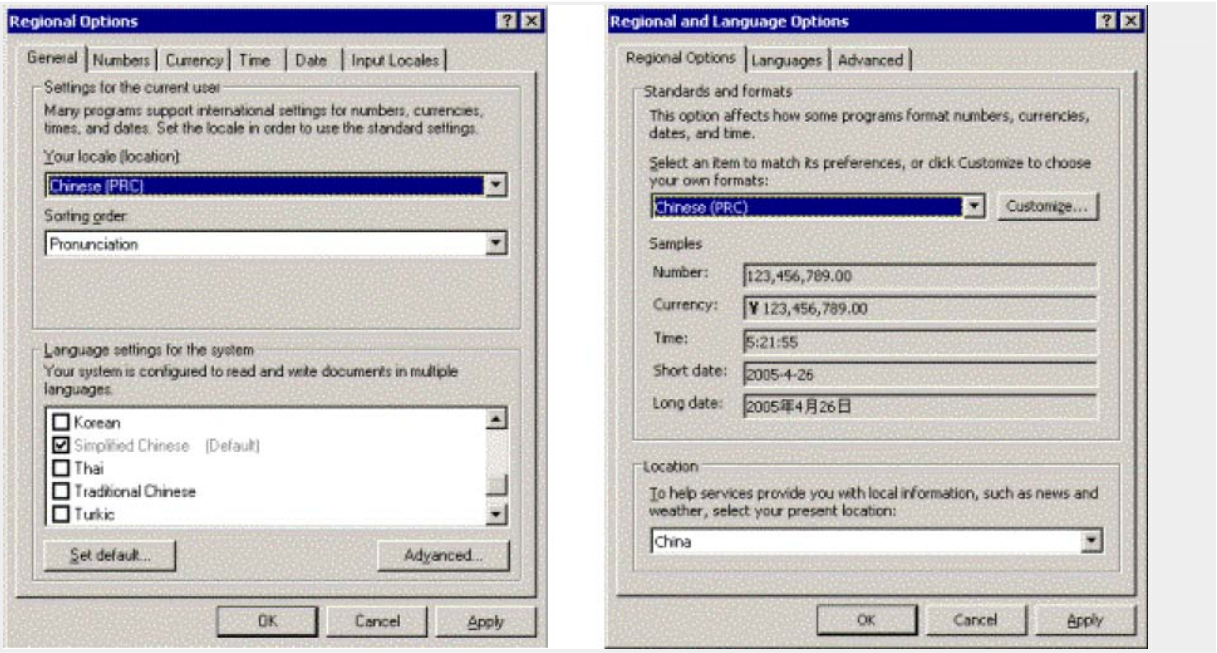
Q: I insert the licensed USB software dog, but why Windows cannot find driver?

USB software dog only needs to be installed on PrintUsage manager server.

- Firstly check if computer BIOS disabled the USB controller.
- Make sure you are using USB software dog in console, not the end service.
- USB software dog driver will install automatically along with PrintUsage installation. If you insert USB software dog without PrintUsage installed, system will pop up error "Can't find hardware driver". So please install PrintUsage first and then insert USB software dog according to the wizard notice.
- If Windows doesn't find hardware driver, an unknown equipment UMC(5.3) will be added. Please remove the equipment first, and install PrintUsage package.
- After installing driver correctly, a USB MicroDog Device will display under the Universal Serial Bus Controller option and it will work normally.
- Manually install software dog driver. Start-->Run-->cmd-->Enter-->cd C:\Program Files\PrintUsage\bin. Executive dogDrv.exe /uninstall to remove old driver and executive dogDrv.exe /install to install new driver.

Q: My operating system is Windows English version, can I install the Chinese version of PrintUsage?

Yes. Considering some users will print document files with Chinese name, the following setup must be done to make sure the Chinese file name can be recognized.



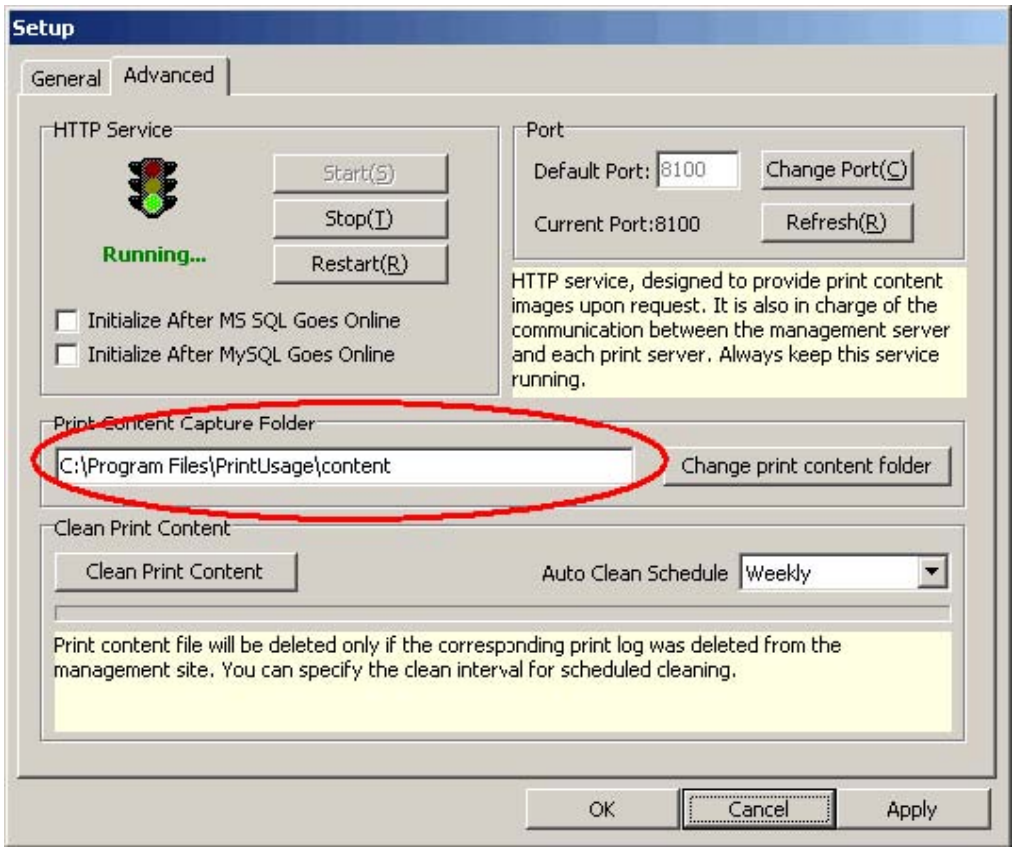
Q: Can I install PrintUsage on the Terminal service? What should I pay attention to?

Yes. But at the beginning, USB software dog cannot be recognized by the Terminal service. Only after you log onto the Desktop, the system can find new hardware and install the driver.

About USB software dog, please refers to I insert licensed USB software dog, but why Windows cannot find driver?

Q: My drive C has no enough space, how can I save print content on other drives or network shared folder?

Right click tray icon-->System configuration-->Advanced to change the print content folder. You can click "Change print content saving folder" to choose other folder. After changing the folder, system will move existing backup files to the new folder.


Setup
General
Advanced
HTTP Service
Start(S)
Stop(T)
Restart(R)
Running...
Initialize After MS SQL Goes Online
Initialize After MySQL Goes Online
Port
Default Port: 8100
Change Port(C)
Current Port:8100
Refresh(R)
HTTP service, designed to provide print content images upon request. It is also in charge of the communication between the management server and each print server. Always keep this service running.
Print Content Capture Folder
C:\Program Files\PrintUsage\content
Change print content folder
Clean Print Content
Clean Print Content
Auto Clean Schedule
Weekly
Print content file will be deleted only if the corresponding print log was deleted from the management site. You can specify the clean interval for scheduled cleaning.
OK
Cancel
Apply

To setup network shared folder as saving path:

PrintUsage supports UNC format path such as \\Server\share, so you can save different print server contents to central file server or network storage for convenient management and backup and security purposes. Shared folder should be setup with sharing access privilege to avoid unauthorized user to view print content saved in the shared folders.

Shared folder NTFS privilege should be set up with Administrators: complete control; Print server account: Complete control. It is the machine account but not user account. So general user would have no right to access the shared folder, but print monitoring service can still work normally.

Refer to Saving print content

Q: I want to monitor the printer status, such as offline, out of paper and toner low. Can PrintUsage do this?

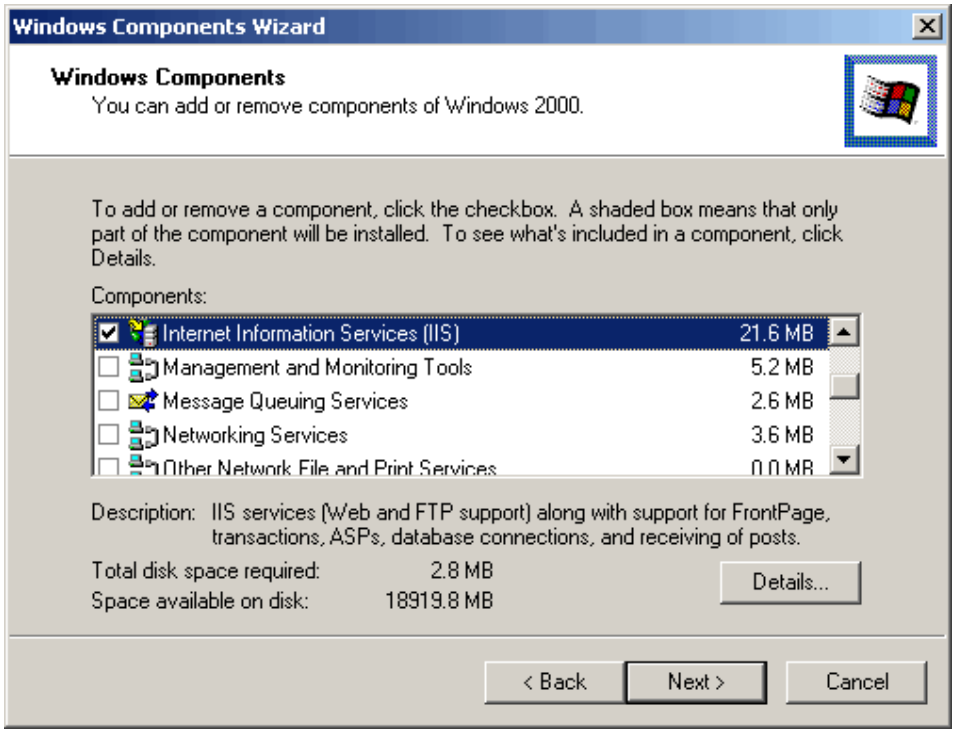
PrintUsage only focuses on usage and control of print resource without the function of monitoring hardware. If you use HP network printer or print server, there is excellent management software called HP Web JetAdmin which would satisfy your requirement. You can download it from HP for free.

Q: When I run the setup program, it says it needs IIS installed. What does this mean?

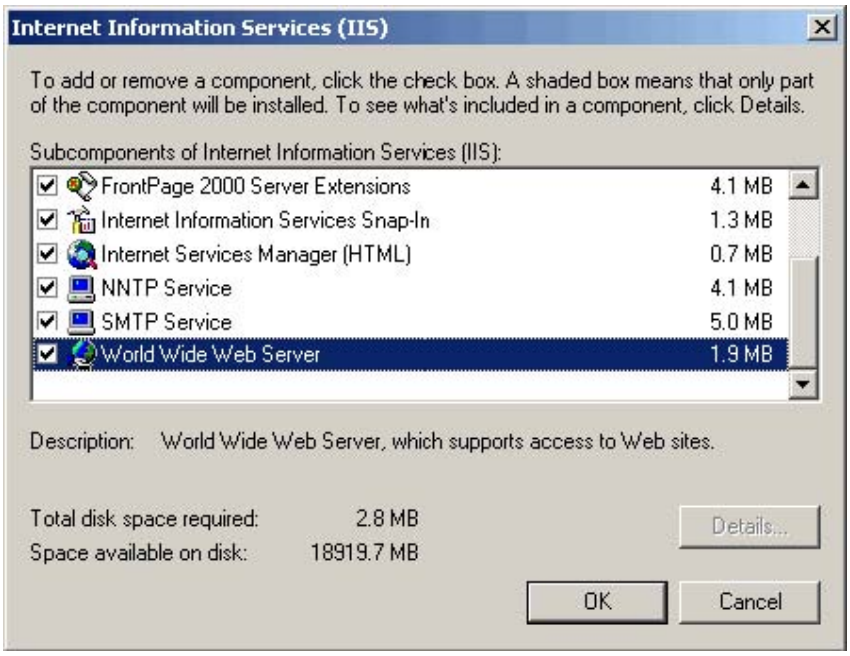
PrintUsage requires IIS to be running. IIS is a windows components, the installation process will remind you if it finds out that the current server doesn't have IIS installed. IIS is not installed by default, so you need to install it before you can continue to install PrintUsage.

For Win2000/XP users:

Control Panel->Add/Remove Programs->Add/Remove Windows Components->Select Internet Information Service (IIS).

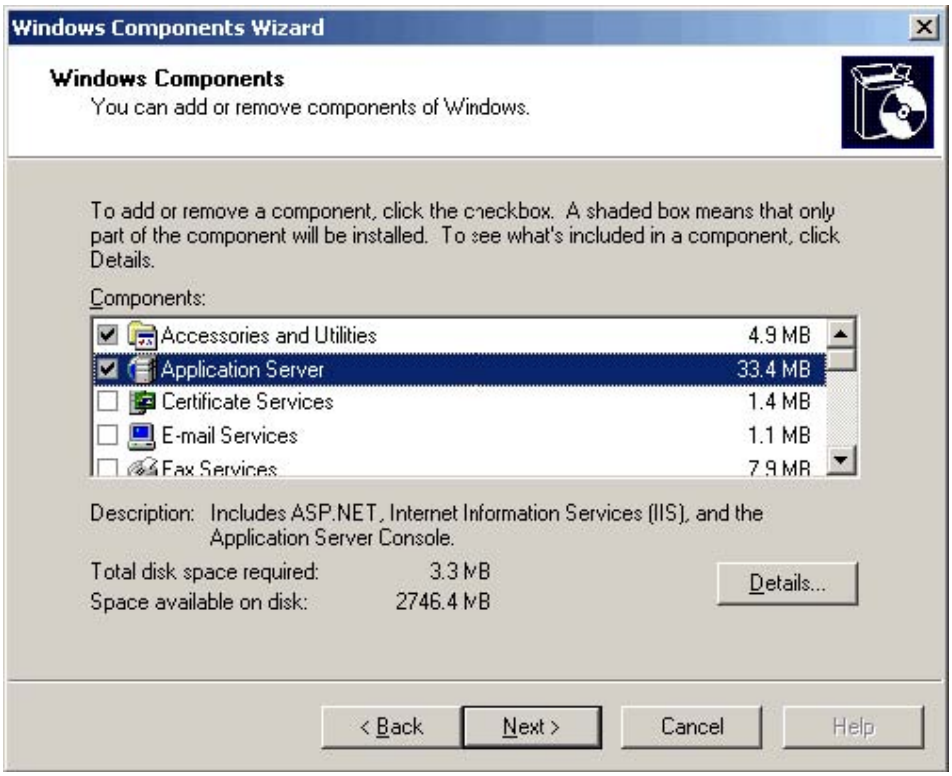

Windows Components Wizard
Windows Components
You can add or remove components of Windows 2000.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Internet Information Services (IIS) 21.6 MB
Management and Monitoring Tools 5.2 MB
Message Queuing Services 2.6 MB
Networking Services 3.6 MB
Other Network File and Print Services 0.0 MB
Description: IIS services (Web and FTP support) along with support for FrontPage, transactions, ASPs, database connections, and receiving of posts.
Total disk space required: 2.8 MB
Space available on disk: 18919.8 MB
Details...
< Back
Next >
Cancel

Internet Information Service Snap-In and World Wide Web Server is required, please select.

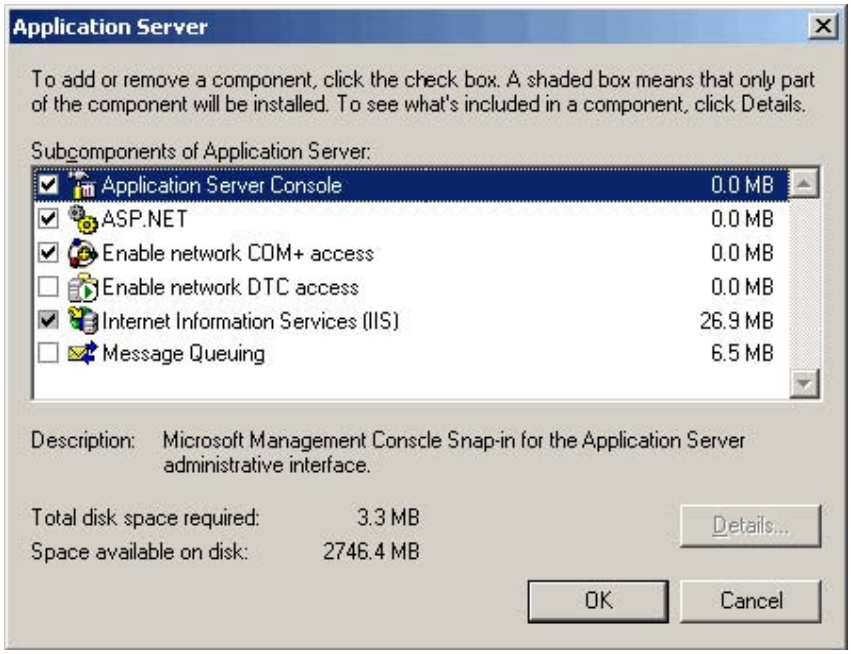

Internet Information Services (IIS)
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Internet Information Services (IIS):
FrontPage 2000 Server Extensions 4.1 MB
Internet Information Services Snap-In 1.3 MB
Internet Services Manager (HTML) 0.7 MB
NNTP Service 4.1 MB
SMTP Service 5.0 MB
World Wide Web Server 1.9 MB
Description: World Wide Web Server, which supports access to Web sites.
Total disk space required: 2.8 MB
Space available on disk: 18919.7 MB
Details...
OK
Cancel

For Windows 2003 Users:

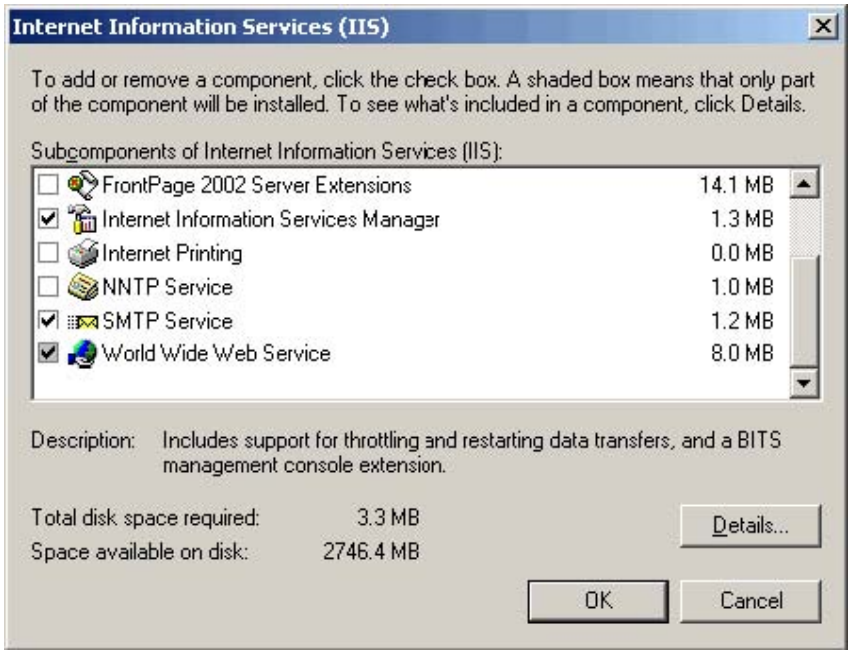
Control Panel->Add/Remove Programs->Add/Remove Windows Components->Select Application Server.


Windows Components Wizard
Windows Components
You can add or remove components of Windows.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Accessories and Utilities 4.9 MB
Application Server 33.4 MB
Certificate Services 1.4 MB
E-mail Services 1.1 MB
Fax Services 7.9 MB
Description: Includes ASP.NET, Internet Information Services (IIS), and the Application Server Console.
Total disk space required: 3.3 MB
Space available on disk: 2746.4 MB
Details...
< Back
Next >
Cancel
Help

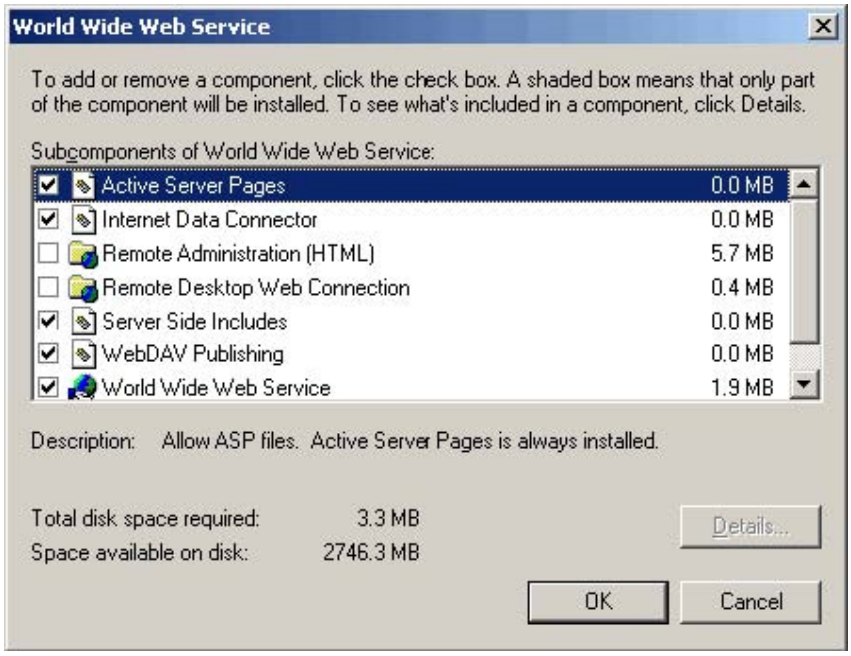
Select Internet Information Services (IIS). Click Details.


Application Server
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Application Server:
Application Server Console 0.0 MB
ASP.NET 0.0 MB
Enable network COM+ access 0.0 MB
Enable network DTC access 0.0 MB
Internet Information Services (IIS) 26.9 MB
Message Queuing 6.5 MB
Description: Microsoft Management Conscle Snap-in for the Application Server administrative interface.
Total disk space required: 3.3 MB
Space available on disk: 2746.4 MB
Details...
OK
Cancel

Choose at least Internet Information Services Manager and World Wide Web Service. Click Details:


Internet Information Services (IIS)
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Internet Information Services (IIS):
FrontPage 2002 Server Extensions 14.1 MB
Internet Information Services Manager 1.3 MB
Internet Printing 0.0 MB
NNTP Service 1.0 MB
SMTP Service 1.2 MB
World Wide Web Service 8.0 MB
Description: Includes support for throttling and restarting data transfers, and a BITS management console extension.
Total disk space required: 3.3 MB
Space available on disk: 2746.4 MB
Details...
OK
Cancel

Make sure you select Active Server Pages, Server Side Includes and World Wide Web Services.


World Wide Web Service
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of World Wide Web Service:
Active Server Pages 0.0 MB
Internet Data Connector 0.0 MB
Remote Administration (HTML) 5.7 MB
Remote Desktop Web Connection 0.4 MB
Server Side Includes 0.0 MB
WebDAV Publishing 0.0 MB
World Wide Web Service 1.9 MB
Description: Allow ASP files. Active Server Pages is always installed.
Total disk space required: 3.3 MB
Space available on disk: 2746.3 MB
Details...
OK
Cancel

Q: After installing the PrintUsage, the software is still a trial version. What should I do?

It is because Print Monitoring Service cannot obtain the software registration information, which is caused by incorrect installation, incomplete initialization of database, or software dog unavailable. Solutions: uninstall and reinstall the program. If the domain is large, it will take 10 to 30 minutes to import users.

Q: How to correctly install MSDE as database server?

MSDE is a free desktop SQL Server published by Microsoft, which has most functions of SQL Server.
Free download at Microsoft official website: http://www.microsoft.com/downloads/details.aspx?FamilyId=413744D1-A0BC-479F-BAFA-E4B278EB9147&displaylang=zh-cn#filelist.

Run CHS_MSDE2000A.exe to decompress files to the hard disk. Default folder is C:\MSDERelA.
Open DOS prompt window. Use command cd to enter folder MSDE 2000 Release A

Executive command:

Setup DISABLENETWORKPROTOCOLS=0 SAPWD="666666" SECURITYMODE=SQL

DISABLENETWORKPROTOCOLS=0 indicates to accept application programs connection from other computers.

SAPWD="666666" indicates 666666 is a powerful password specified for sa

SECURITYMODE=SQL indicates to configure installation with complex modes

Q: Could PrintUsage be installed on WAN and monitor remote printers?

Theoretically, as long as manager server, database server and print server can implement IP communication by VPN or other network techniques, the PrintUsage can be installed. But in real application, whether it will work smoothly is determined by WAN speed. At least 2Mbps connection speed is required for smooth work, or print task has to wait for a long time in task queue.

Q: After installing PrintUsage, I can monitor the print of local machine, but I cannot monitor other computers. Why?

This problem happens because the other machines print directly to the network printer through the TCP/IP port while not printing through the shared network printer connecting to the print server where PrintUsage is installed. So the other machines can be monitored only when these machines print through the shared network printer connecting to the print server.

Q: How to prevent user exiting PrintUsage program and hiding from the monitoring?

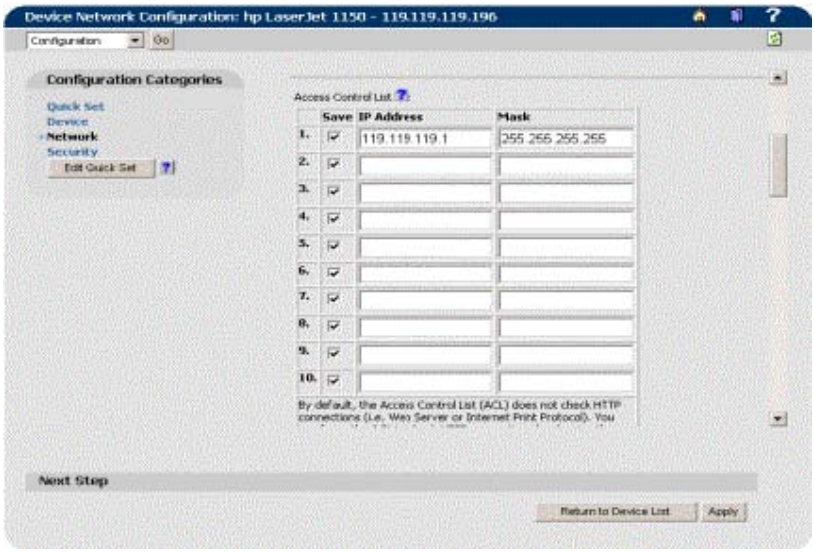
PrintUsage print service runs as a system service, so the monitoring service runs normally even if there is no user logon. After user logon, there will be a printer icon in the system tray. This icon is for the configuration tool of print monitoring service but not for the monitoring function. Even if user exits the program, the monitoring service will not stop.

For those printers shared on individual workstations, we should prevent user from stopping print monitor service or uninstalling PrintUsage to hide from the monitoring. SO only Administrators or Power Users have the privilege to stop the service or uninstall PrintUsage.

Q: After PrintUSage installation, how to prevent users from printing directly to the network printers through TCP/IP and hide from monitoring?

The purpose to use PrintUsage on network shared printing is to allow print server to communicate with network printer and make sure the shared printer is the only way for printing. Please refer to the following solutions to fix the above issue:

- On the control panel or manager program of network printer, there is an Access Control List function where you can enter the IP address which has ONLY printing service. Note: Usually, print server also has other network protocols such as NetBios and AppleTalk installed. So please make sure all print protocols except for TCP/IP must be disabled so that the Access Control IP List can function correctly.



- IP restriction can be done on exchanger.
- By setting up VLAN division, we can configure the print server to be the only one that can access the IP segment of network printer, but other users can not. That makes other users have no choice but print through the print server.

Q: The recorded pages and copies count, using HP1320 is not correct.

The older driver for HP1320 causes the problem. Please download the driver PCL5 from http://www.hp.com. After upgrading, uncheck the "Enable advanced printing features" in advanced option.

Q: Fail to read registration info during PrintUsage installation

1. Check if softdog is installed on dominating server.

2. Make sure the license you are using matches the right version. License of professional version can not be used for enterprise version; vice versa.

3. Check if softdog driver is installed correctly. Because there are different operating systems, different user privileges and different file protection, it's possible that softdog is not installed correctly. Please follow the steps below to install softdog:

a. Go to bin folder under PrintUsage installation directory and find DogDrv.exe

b. Click [Start]-->[Run]--> enter cmd and hit Enter

c. Drag DogDrv.exe to DOS window

d. Type the following character string in Dos window to install softdog driver

- /install------- Install driver
- /uninstall--------Remove driver
- /interface-------Enter manager interface

Note:

- Don't use Terminal to install softdog driver because Terminal thread has conflict with the driver and may fail the installation.

Common log error ID and meaning

Error ID	Meaning	Solution
204	Print monitoring service startup failure because of database connection problem	Make sure system installed successfully. Make sure database server is accessible and service in running If the print server is a stand alone server, please make sure the dominating server is specified and configured successfully If we need to test the SQL Server 2000 installed on Win2003, SP3 is required.
200	Print monitoring service startup failure because of license issue	The problem may be caused by trial version expiration or the USB software dog detection failure. Please check the event log for detailed information Terminating the wizard during installation process will lead to error also.
201/202	Print monitoring service stop because of license issue	Same solutions as 200
1000	Print monitoring service starts up in order	
1006	Print monitoring service stops in order	
2091	Detailed information of printing task	It includes all the detailed information of each print task being monitored.
2071	List of printers being monitored is added when print service startsTh up	This log shows the list of printers being monitored when print service starts up.
3460/3470/3480	Error of print monitoring service occured when controlling print tasks	The sporadic error can be ignored. Continued errors can be resoved by restarting ther monitoring service.
3560/3570/3580	Error of print monitoring service occured when monitoring print tasks	The problem is caused by database connection failure. The sporadic error can be ignored. Continued errors can be resoved by restarting service.
2500/12004	Error in service update	The problem is caused by database connection failure or configuration error. The sporadic error can be ignored.
4330	Database connection testing failure	Refer ID 200 and ID 204 soluctions
20102	Fail to read registration info from USB software dog	Make sure USB software dog connects to USB ports correctly.

About Operator: Set Font error

When printer uses driver PCL6, there is following information:

PCL Error

subsystem: GRAPHICS

Error: internal error 0xffffffff

Operator: Set Font

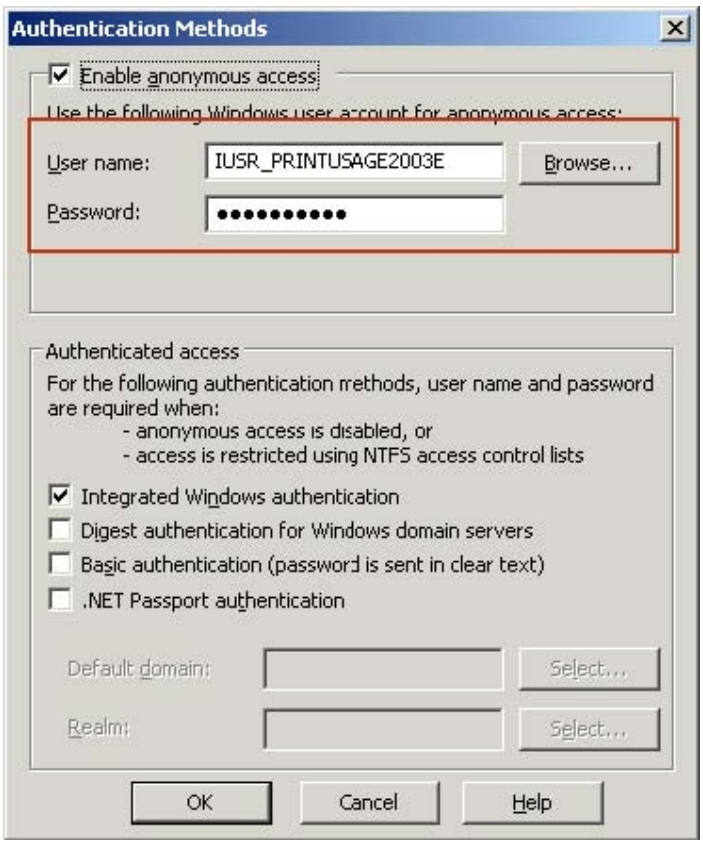
Position: 6365

If you are not able to print the correct content, page number won't be correct either. We recommend you to change printer driver to PCL5E or PS, and the problem should be resolved.

Q: When adding a printer in the manager site, it cannot find the shared printer attached to another WinXP machine.

PrintUsage Pro manager site is running under IUser_[server], which is restricted to be a guest account. WinXP by default disabled the Guest account so that it won't have access to the shared printer. Two solutions to fix this problem:

1. Specify a domain user account to run the PrintUsage manager site in IIS. This needs to be done on the machine that has the PrintUsage Manager site installed.

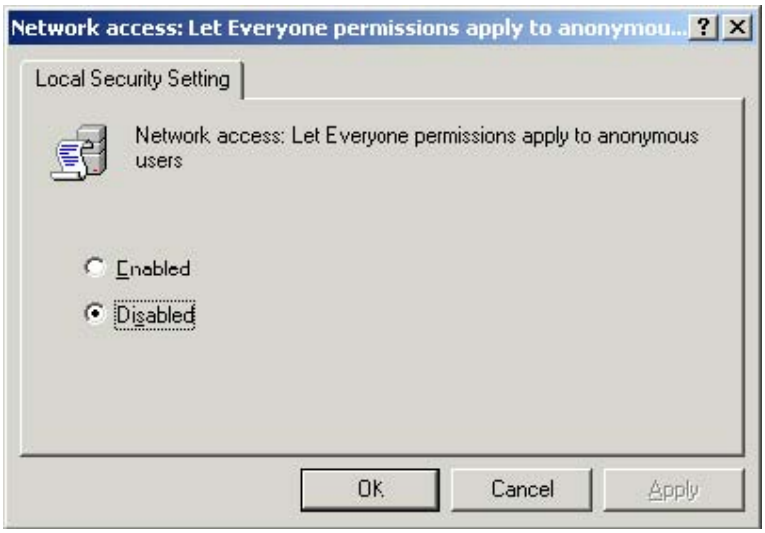


2. Enable the Guest Account in the Local User and Groups

This should be done on the WinXP machine which shares the printer

Open Administrative Tools->Local Security Policy->User rights assignment, delete the Guest from the "Deny access to this computer from the network".

Go to Administrative Tools->Local Security Policy->Security Options. Enable the "Network access: Let Everyone permission apply to anonymous users"



Go to Local Security Policy, Security Settings, reload to take effect.

Security Setti
Account P
Passv
Accou
Local Polic
Audit
User Rights Assignment
Security Options
Public Key Policies
Encrypting File System
Software Restriction Policies
IP Security Policies on Local Computer
Open
Import Policy...
Export policy...
Reload
Help

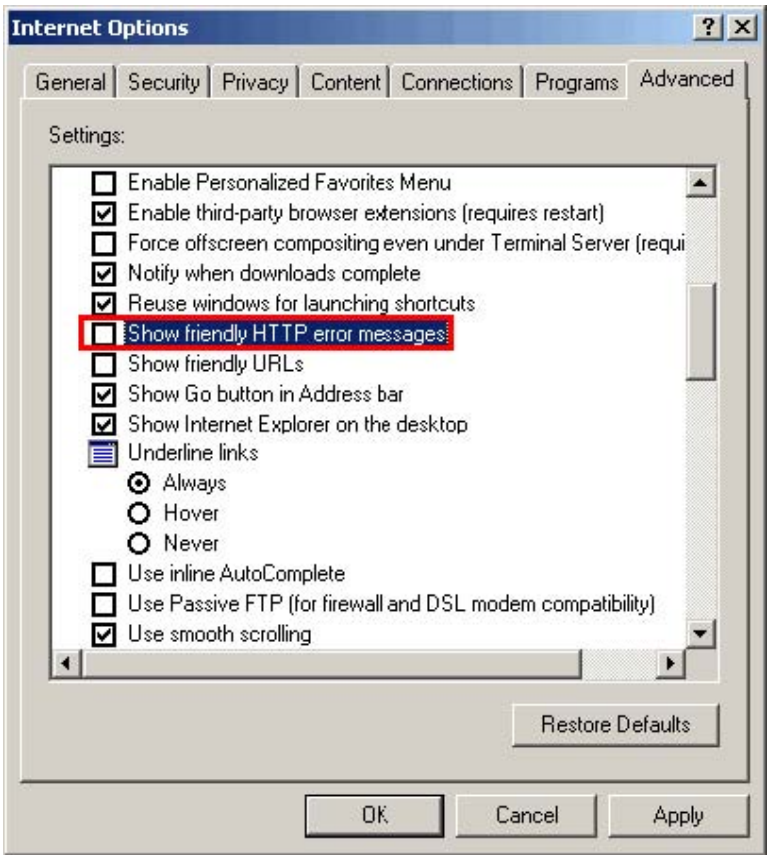
Q: Web manager site couldn't open.

PrintUsage manager site relies on IIS, but IIS might work abnormally because of some problems such as incomplete installation, purview and port conflict. If Web manager site can not open, it might result from one of the following two errors: (Refer to IIS Installation Manual)

1. Page displays HTTP 500 - Internal server error

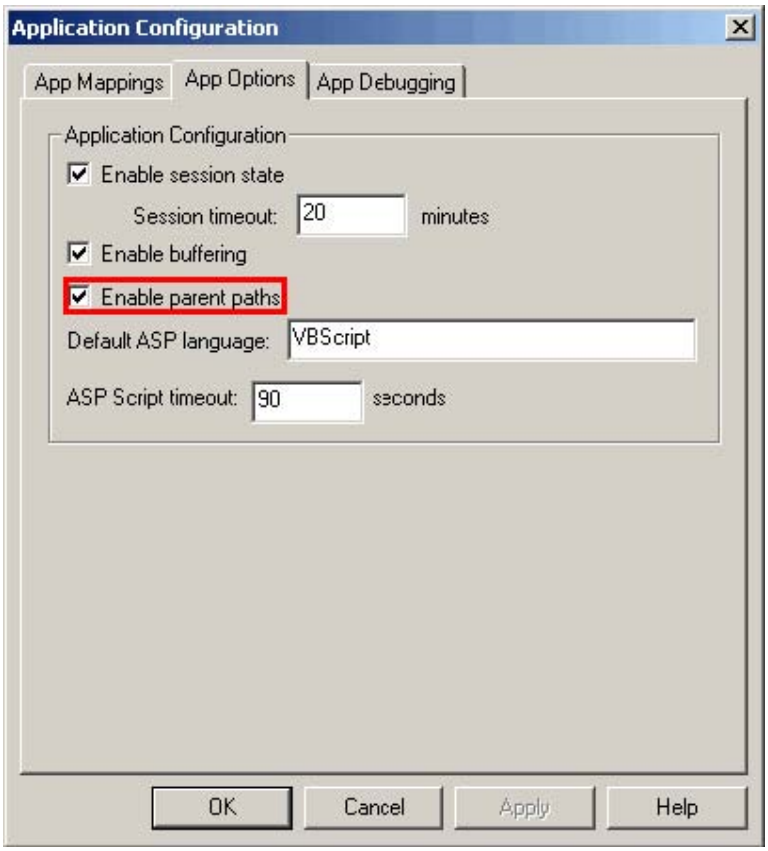
This means IIS has been running but error occured. Follow the instruction below to get detailed infromation.

Open IE->Tools->Internet option->Advanced tab, uncheck Friendly display HTTP error and refresh the manager site to view detailed error information.



Common errors:

- Parent paths disabled. Solution: Startup->Administration Tools->Internet Service Manager->Default site->PrintUsage virtual directory->Properties->Virtual directory ->Application configuration->Setup, check on "Enable parent paths."



- Session not defined: On the screenshot above, check the "Enable Session State".
- HTTP 403.1 access denied: Execute Permission denied. Solution: Startup->Administration Tools->Internet Service Manager->Default site->PrintUsage virtual directory->Properties->Virtual directory ->Application Settings, set Execute Permissions to Script Only.
- Directory Listing Denied. Solution: Startup->Administration Tools->Internet Service Manager->Default site->PrintUsage virtual directory->Properties->document, add "default.asp" in Default Document.

Please check IIS Help file to look for other errors.

2. Page can't display. Couldn't find server or DNS error.

- IIS is installed, but WWW service is not.
- IIS service doesn't startup or default website is stopped in Internet Web server.
- Other Web server is installed, and default Port 80 is occupied. You can bind IIS to other port such as 8080 and visit http://localhost:8080/PrintUsage.
- Virtual directory was not created during installation for some reasons. Please check if there is PrintUsage virtual directory under default site. If there is not, please create virtual directory and have it point to ASP folder under installation directory (C:\Program Files\PrintUsage\). Script execute privilege is required.
- If you can not open http://localhost/PrintUsage, please try http://127.0.0.1/PrintUsage.
- If there are many WEB sites created in the server, PrintUsage folder would be created under certain site, but this site is not the default site that can be visited as Local host or by computer name. You need to change the access path or manually create PrintUsage virtual directory on default site.

Q: How to choose authorization mode?

PrintUsage is a complete print management system. The key of management is to monitor who prints and to monitor the user authorization. PrintUsage provides two authorization modes:

Authorization by user name

Management and control are based on user name sending the print order. If user logs on with domain account, user name is the domain user name; otherwise, it would be the local computer user name. The authorization mode is PrintUsage's default mode and is the recommended mode which fits for domain or active directory network.

Authorization by computer name

Management and control are based on computer name sending print order. The mode fits for equal network. User logs on with local user name, but print server doesn't recognize the local user name. So all print tasks are recorded as Guest printing. Computer name is the only symbol to distinguish from the user. With this authorization mode, PrintUsage can satisfy print monitoring for equal network users.

Conclusion

LAN using domain or active directory, authorization by user name is adopted.
LAN using equal network, authorization by computer name is adopted.

Q: I have to wait for a long time to print after installing print monitoring service? What's the problem?

This problem is caused by PCL6 driver language. You can speed up printing using the following methods:

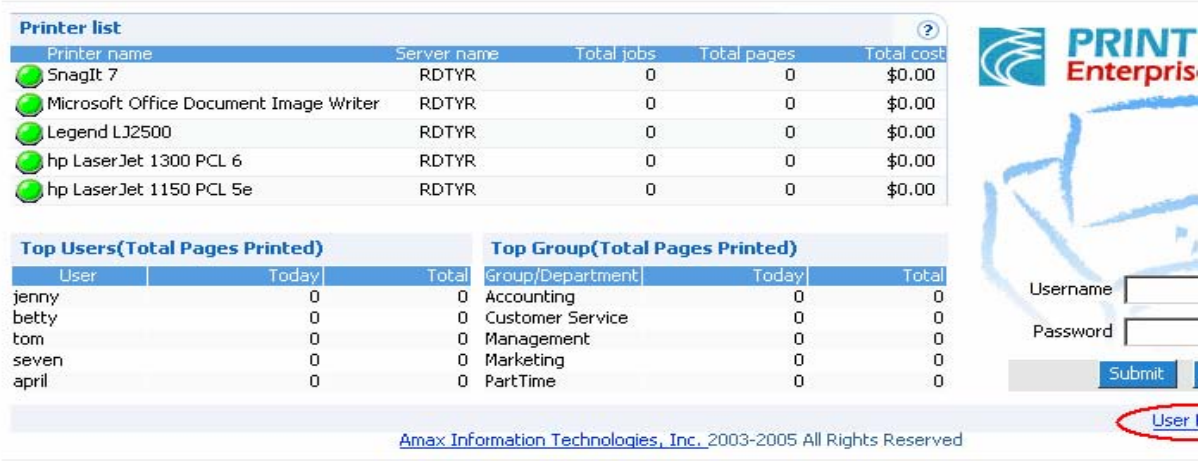
- 1.Change printer driver language to non PCL6, that is PCL5E/PS
- 2.Use reprint mode

Q: About user inquiry entrance and relevant settings

There is an user query entrance link on the homepage of the PrintUsage manager site.

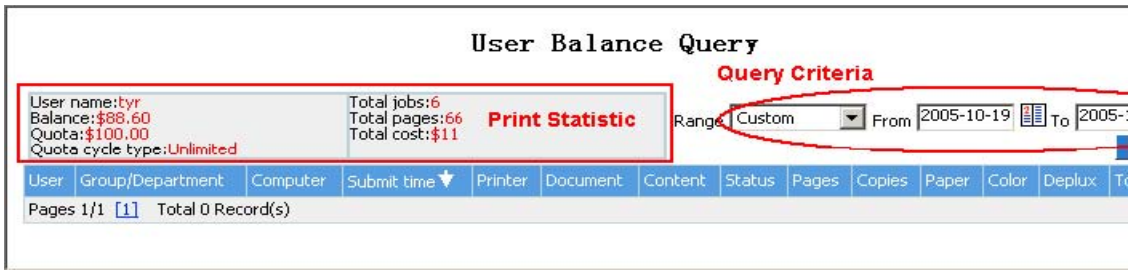
Available condition:

Anonymous access is not allowed for Query Directory Security of PrintUsage virtual directory.

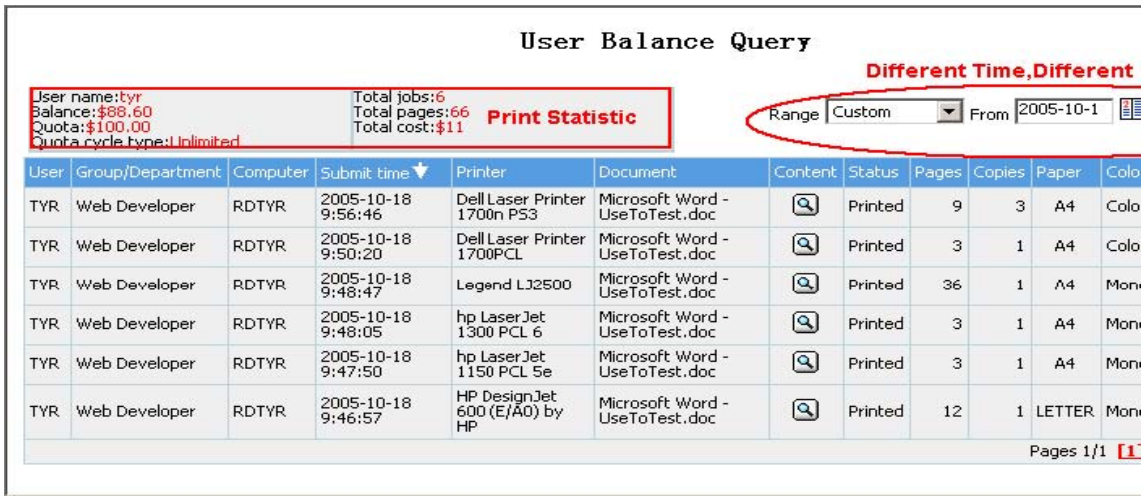


If you don't log on using domain account, you should input user name and password.

Input user name and password to get related information.

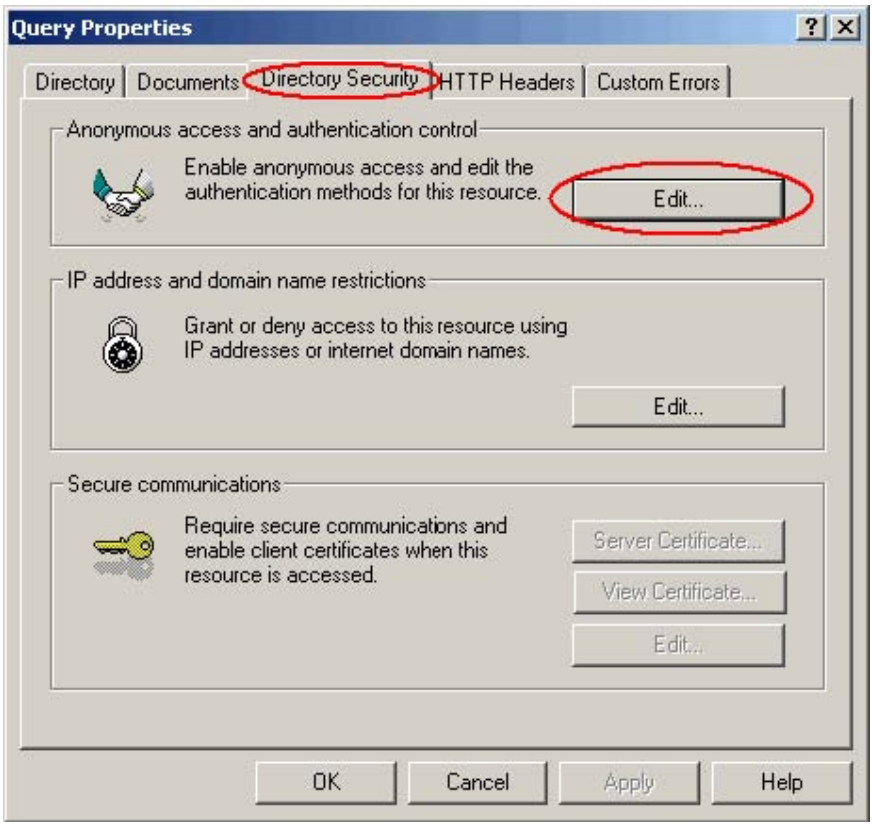


Define the time range of query


User Balance Query
Different Time,Different
User name:tyr
Balance:$88.60
Quota:$100.00
Quota cycle type:Unlimited
Total jobs:6
Total pages:66
Total cost:$11
Print Statistic
Range Custom From 2005-10-1
User Group/Department Computer Submit time Printer Document Content Status Pages Copies Paper
TYR Web Developer RDTYR 2005-10-18 9:56:46 Dell Laser Printer 1700n PS3 Microsoft Word - UseToTest.doc Printed 9 3 A4
TYR Web Developer RDTYR 2005-10-18 9:50:20 Dell Laser Printer 1700PCL Microsoft Word - UseToTest.doc Printed 3 1 A4
TYR Web Developer RDTYR 2005-10-18 9:48:47 Legend LJ2500 Microsoft Word - UseToTest.doc Printed 36 1 A4
TYR Web Developer RDTYR 2005-10-18 9:48:05 hp LaserJet 1300 PCL 6 Microsoft Word - UseToTest.doc Printed 3 1 A4
TYR Web Developer RDTYR 2005-10-18 9:47:50 hp LaserJet 1150 PCL 5e Microsoft Word - UseToTest.doc Printed 3 1 A4
TYR Web Developer RDTYR 2005-10-18 9:46:57 HP DesignJet 600 (E/A0) by HP Microsoft Word - UseToTest.doc Printed 12 1 LETTER
Pages 1/1

You can setup Query folder security properties.

1. Enter IIS
2. Expand IIS folder
3. Right click Query and select properties.
4. Select Directory Security



5.Click [Edit]

Authentication Methods
Anonymous access
No user name/password required to access this resource.
Account used for anonymous access:
Edit...
Authenticated access
For the following authentication methods, user name and password are required when
- anonymous access is disabled, or
- access is restricted using NTFS access control lists
Basic authentication (password is sent in clear text)
Select a default domain:
Edit...
Digest authentication for Windows domain servers
Integrated Windows authentication
OK
Cancel
Help

Uncheck [Anonymous access]

Q: How to deal with "Fail to save print content as image"?

If it pops up this message, which means your printer driver is not compiled by PCL or Postscript language. PrintUsage only supports drivers complied by these two languages to convert print tasks to images. Please contact your printer supplier and check if your printer uses PCL or Postscript language driver, or consult us.

Laser printers of HP, Lexmark, Xerox, Samsung, Sharp and Ricoh support this function except for HP LaserJet 1000 and 1010 series. Laser printers of Epson and Canon do not support this function.

If your printer doesn't support to save print as image, you can save the print as reprint file and print the file later. Procedures: Web manager site-->Printer list-->select save print as "Image + reprint file" or "reprint file".

Q: How to deal with "Specified file doesn't exist on print server or Fail to retrieve file from print server"?

Open IE on manager server to diagnose. Enter http://print:8100 (suppose print server name is print). If the page doesn't display "PrintUsage Http(App) Server is Running..."the possible reasons are:

- Remote or local PrintUsage HTTP service doesn't startup. To restart the corresponding HTTP service can solve problem.
- Manager server cannot resolve print server's IP through computer name, so it cannot connect to HTTP service to retrieve the print content. This occurred often because print server and manager server don't belong to the same subnet or domain. Currently communication between PrintUsage servers is based on computer name, so an entry should be added into HOSTS file of manager server in order to correctly access print server by computer name. Open Hosts file in C:\Winnt\System32\drivers\etc\Hosts and add a line xxx.xxx.xxx.xx print. Here xxx.xxx.xxx.xx refers to IP address of the print server, prints refers to the computer name of the print server, and then save and exit.

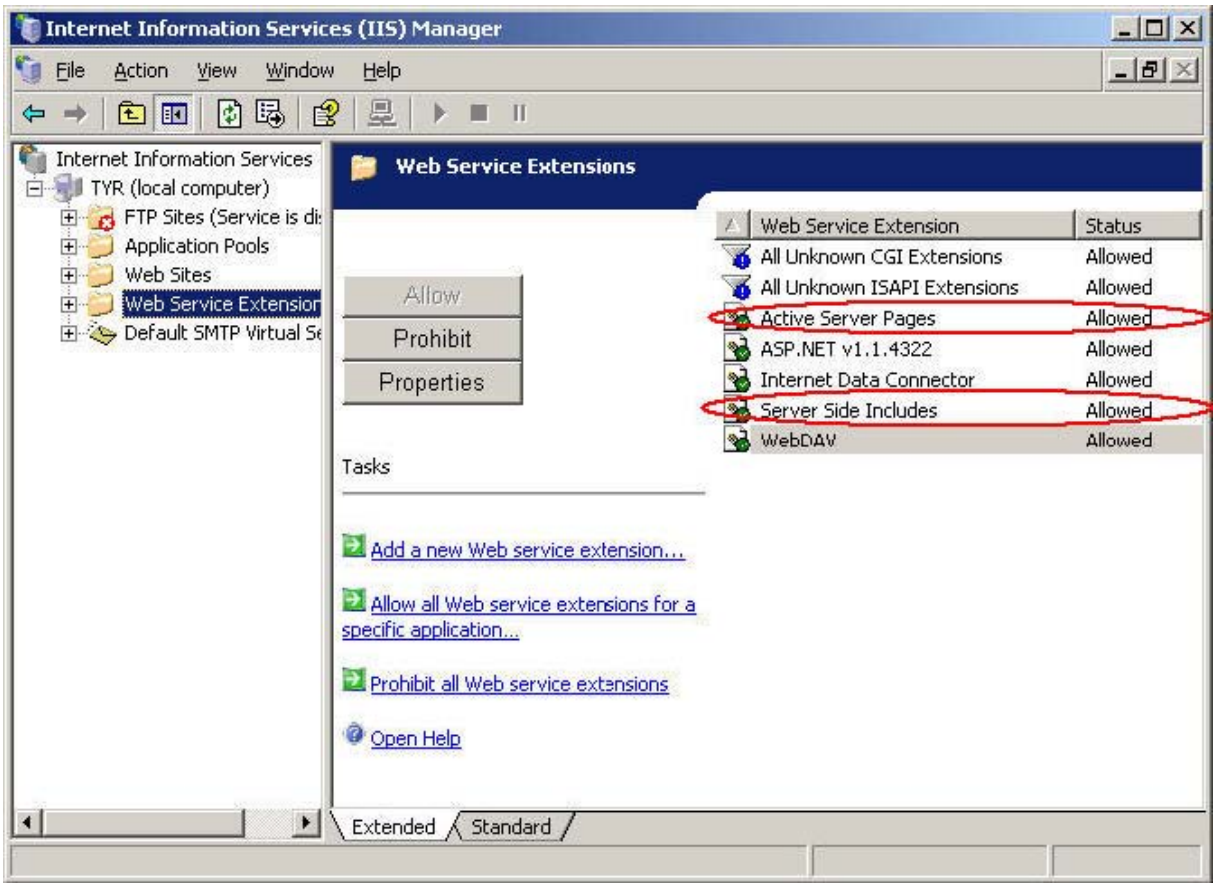
  If page can open normally and displays PrintUsage Http(App) Server is Running..., that means the communication with print server is OK. Then the problem may result from retrieving the print image file. The possible diagnoses are:

  - Firstly to make sure print content file was not removed;
  - Secondly to make sure path of saving print in system settings is correct.
  - If path has been changed ever, after reinstallation, the path should point to the correct folder for saving print content and restart HTTP service to get previous saved files.

Q: What should I pay attention to when installing PrintUsage management server on Win2003?

For PrintUsage, the operation system needs the server included files and needs to support ASP script language. But the default option of Windows 2003 disables these two functions. So you need to change some settings in order to run PrintUsage on Windows 2003:

- Start->Programs->Administrative Tools ->Internet Information Services (IIS) Manager->Web Service Extensions. Allow Active Server Pages and Server side includes.



- Start->Programs->Adminitrative Tools ->Internet Information Services (IIS) Manager-->Website->Default Website->PrintUsage->Properties->Virtual Directory->Options, check the Start parent path and Start conversation status and then click OK.

Q: Print monitoring service has started, but why print tasks cannot be recorded in system?

The monitoring service would run only if the monitoring service is added into Web manager site and a printer is added. The above problem may be caused by:

1 Print monitoring service doesn't strat. You can check print service status in print monitoring service manager. Note: If you are in the Terminal Service window, the displayed status of monitoring service manager might not be correct. You should check the status of PrintUsage Service in Windows Administrative Tools->Service and make sure it's started.

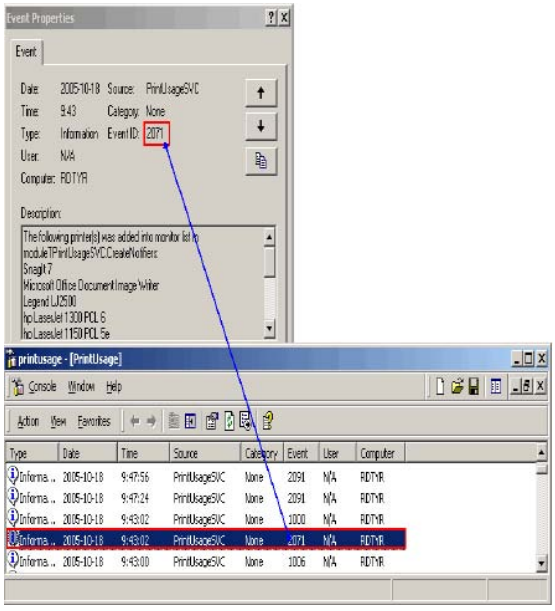
2 Print server is not added to the Web manager site. Please log on Web manager site and make sure the Print Server is listed.

3 Printer is not being monitored. If it's the case, please add printer from the printer list page.

4 After adding printer to the Web manager site, print monitoring service was not restarted. After adding printer, print monitoring service would not work until you restart the program.

5 Windows printer name changed. Changing the printer name could disable the monitoring service. PrintUsage would assume that this is another printer and it doesn't need to be monitored. To solve this problem, you need to add the print server again or change the printer name back to the original one. Note: PrintUsage will treat this added printer as a new printer and the new printer account does not have any relationship with the old printer account.

By checking the event log of ID=2071, you can confirm the above problems from 2 to 5. Please make sure the printer you are monitoring is in the list.


Event Properties
Event
Date: 2005-10-18 Source: PrintUsageSVC
Time: 9:43 Category: None
Type: Information Event ID: 2071
User: N/A
Computer: RDTYR
Description:
printusage - [PrintUsage]
Console Window Help
Action View Favorites
Type Date Time Source Category Event User Computer
Informa... 2005-10-18 9:47:56 PrintUsageSVC None 2091 N/A RDTYR
Informa... 2005-10-18 9:47:24 PrintUsageSVC None 2091 N/A RDTYR
Informa... 2005-10-18 9:43:02 PrintUsageSVC None 1000 N/A RDTYR
Informa... 2005-10-18 9:43:02 PrintUsageSVC None 2071 N/A RDTYR
Informa... 2005-10-18 9:43:00 PrintUsageSVC None 1006 N/A RDTYR

Q: What is default user name and password of PrintUsage?

Password of PrintUsage manager site can be set on the last step of installation wizard. If you don't set password, the default user name is "admin". The user has the full control.

Q: I forget the password of PrintUsage manager site, how to reset it?

You can log on with other user name with the administrator right to reset password. If there isn't any other administrator account, please follow the instructions below:

- Open C:\Program Files\PrintUsage\bin\PrintUsage.ini and change line "WizardDone=Y" to "WizardDone=N"
- Run the Configuration Wizard in PrintUsage program group. Select the same type of database as the previous installed one, the system will recognize the previous database and ask if you want to overwrite the data or not. Please make sure you select "NO".
- Skip the next pages if there is a skip option.
- To finish, please enter the password for the Admin.

PrintUsage Setup Wizard

PrintUsage Setup Wizard is used to set up system required parameters. The wizard will start automatically during installation.

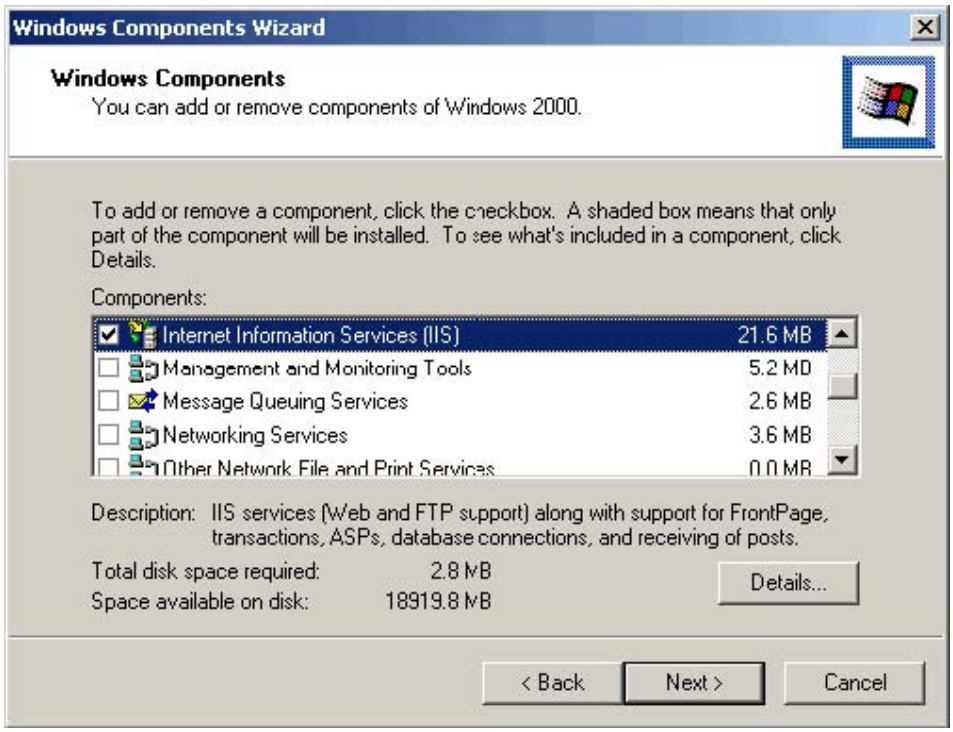
Setup Wizard includes following several items:

- IIS Installation
- Installation Preparation
- Welcome Page
- User Agreement
- Select Target Folder
- Select Installation Mode
- Select Beginning Folder
- Setup Preparation
- Select Language
- Select License Mode
- Database Mode & Connection Settings
- Select Authentication
- Select Imported User Group
- Select Imported User
- Set Monitoring Mode
- Add Monitored Printers
- Create Virtual Directory
- Administrator Setting
- Restart Wizard

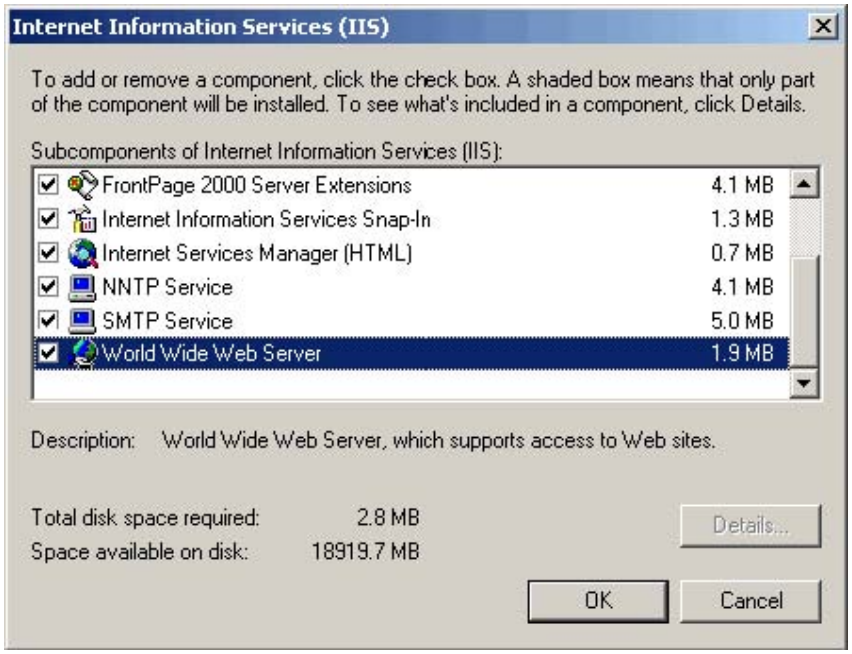
IIS (Information Internet Information Services)

Installation procedures of IIS under different Operating Systems are different. Now we take Windows 2000 as an example to install IIS. The installation steps are:

1. Click Start--> Settings--> Control Panel--> Add/Remove Programs--> Add/Remove Windows Components. Select the check box next the Internet Information Services (IIS).

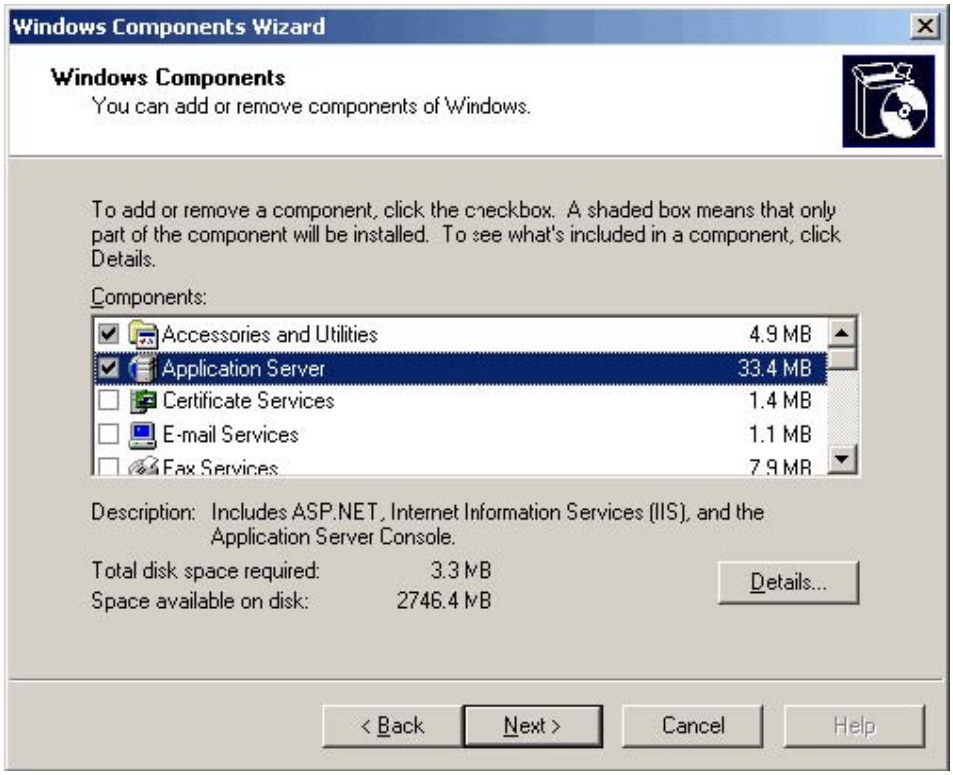

Windows Components Wizard
Windows Components
You can add or remove components of Windows 2000.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Internet Information Services (IIS) 21.6 MB
Management and Monitoring Tools 5.2 MB
Message Queuing Services 2.6 MB
Networking Services 3.6 MB
Other Network File and Print Services 0.0 MB
Description: IIS services (Web and FTP support) along with support for FrontPage, transactions, ASPs, database connections, and receiving of posts.
Total disk space required: 2.8 MB
Space available on disk: 18919.8 MB
Details...
< Back
Next >
Cancel

2.Then click "Details" button.

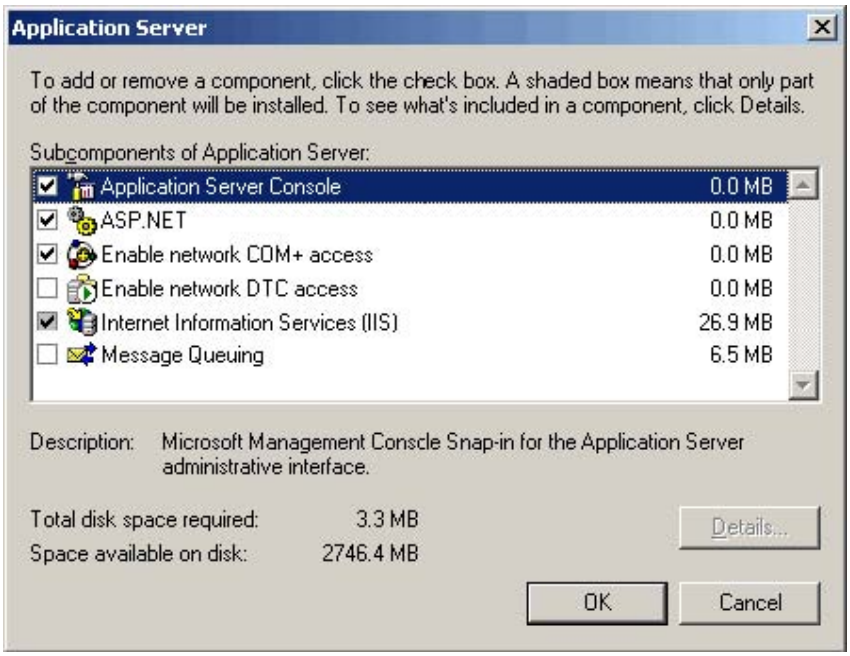

Internet Information Services (IIS)
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Internet Information Services (IIS):
FrontPage 2000 Server Extensions 4.1 MB
Internet Information Services Snap-In 1.3 MB
Internet Services Manager (HTML) 0.7 MB
NNTP Service 4.1 MB
SMTP Service 5.0 MB
World Wide Web Server 1.9 MB
Description: World Wide Web Server, which supports access to Web sites.
Total disk space required: 2.8 MB
Space available on disk: 18919.7 MB
Details...
OK
Cancel

3. The installation of IIS on Windows XP is similar to Windows 2000, but the installation on Windows Server 2003 is different Windows 2000. If you are Window 2003 user, please go to step 4; otherwise, please go to step 8.

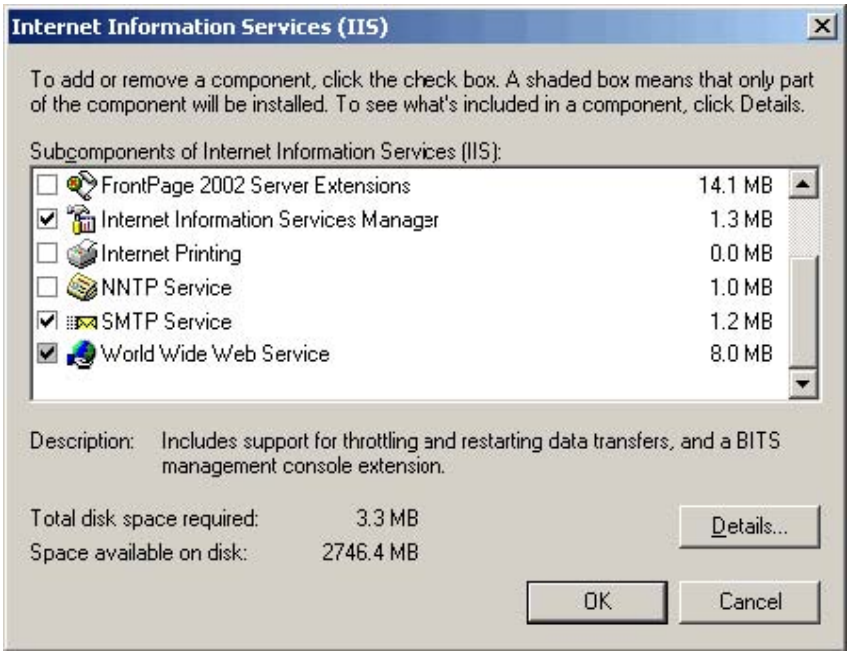
4. Click Start--> Settings--> Control Panel-->Add/Remove Programs--> Add/Remove Windows components. Select the check box next to the Application Server. Then click "Details & quote".


Windows Components Wizard
Windows Components
You can add or remove components of Windows.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Accessories and Utilities 4.9 MB
Application Server 33.4 MB
Certificate Services 1.4 MB
E-mail Services 1.1 MB
Fax Services 7.9 MB
Description: Includes ASP.NET, Internet Information Services (IIS), and the Application Server Console.
Total disk space required: 3.3 MB
Space available on disk: 2746.4 MB
Details...
< Back
Next >
Cancel
Help

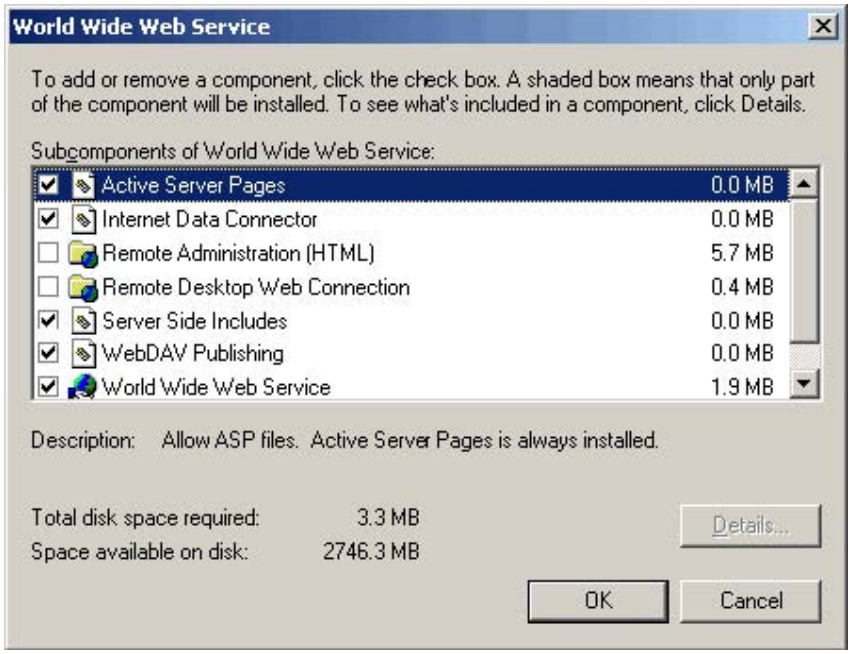
5. In the Application Server list, please select Enable network COM+ access, Application Server Console, and Internet Information Service.


Application Server
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Application Server:
Application Server Console 0.0 MB
ASP.NET 0.0 MB
Enable network COM+ access 0.0 MB
Enable network DTC access 0.0 MB
Internet Information Services (IIS) 26.9 MB
Message Queuing 6.5 MB
Description: Microsoft Management Conscle Snap-in for the Application Server administrative interface.
Total disk space required: 3.3 MB
Space available on disk: 2746.4 MB
Details...
OK
Cancel

6. Check the Internet Information Service, and click Details. You will see World Wide Web Service. Select that check box and go to the details.


Internet Information Services (IIS)
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Internet Information Services (IIS):
FrontPage 2002 Server Extensions 14.1 MB
Internet Information Services Manager 1.3 MB
Internet Printing 0.0 MB
NNTP Service 1.0 MB
SMTP Service 1.2 MB
World Wide Web Service 8.0 MB
Description: Includes support for throttling and restarting data transfers, and a BITS management console extension.
Total disk space required: 3.3 MB
Space available on disk: 2746.4 MB
Details...
OK
Cancel

7. Make sure you select Active Server Pages, and World Wide Web Service.


World Wide Web Service
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of World Wide Web Service:
Active Server Pages 0.0 MB
Internet Data Connector 0.0 MB
Remote Administration (HTML) 5.7 MB
Remote Desktop Web Connection 0.4 MB
Server Side Includes 0.0 MB
WebDAV Publishing 0.0 MB
World Wide Web Service 1.9 MB
Description: Allow ASP files. Active Server Pages is always installed.
Total disk space required: 3.3 MB
Space available on disk: 2746.3 MB
Details...
OK
Cancel

8. Click [OK] to finish the installation. During the installation, system disk will be required.

9. After IIS was installed, you can find Internet Information Services (IIS) Manager from the Administrator Tools. Click Start--> Settings--> Control Panel--> to verify.

Prepare to install

1. Uninstall the foregone PrintUsage edition or testing edition

Please uninstall the foregone or testing PrintUsage edition before install the PrintUsage 2.0. The program will detect itself and remove the existing PrintUsage automatically. However the database and printed files of the previous Printusage will be kept. The following will be kept if they were setup by default:

- C:\Program Files\PrintUsage\Data\PrintUsage.mdb, which is the database of preexistence edition, if something has been written on it.
- The Database will be remain on database server
- The index C:\Program Files\PrintUsage\Content will be kept if preexistence edition is V2.X corporation edition. Please don't remove the indexes if you want to keep the foregone data and printed files, because it deposited all saved printed files. When installing new edition, you just need to transfer the indexes (installation program will transfer the existence of the index to PrintUsage, confirm and go on)
- The whole index C:\Program Files\PrintUsage or C:\Program Files\PrintUsage Pro can be removed if you are going to have complete installation. You can drop database of PrintUsage in Database Manager if your database is MSSQL or MYSQL.

[Notice] Default installing path of PrintUsage V1.3 is C:\Program Files\PrintUsage Pro, different from the one of V2.x. Therefore, if your foregone edition is PrintUsage V1.3 and it run Access database, database file path is C:\Program Files\PrintUsage Pro\Data\PrintUsage.mdb after uninstallation. Installation program will not detect foregone database if you install V2.0 edition according to default installing path after Uninstalling PrintUsage V1.3. Installation of V2.x may begin after you rename the index C:\Program Files\PrintUsage Pro to PrintUsage, if you want to keep down the original database. (Please refer to How to Install New Edition in Case of Dropping Original Database)

2. Confirm that selected server has been installed and run smoothly

- Access: No need installation, installation program will automatically install for you.
- MSSQL: Installation need select blended mode of user authentication. You may download it from PrintUsage website.
- MySQL: Please use the default path during the installation.

You may free download it from MySQL office website or PrintUsage website.

- Oracle: Example is needed, please select UTF-8 coding mode

3. Install program offered by corresponding database according to selected database

- MyODBC is installed, if you choose MySQL, You may free download it from MySQL office website http://dev.mysql.com/downloads/ or PrintUsage website.
- Client Server of corresponding Oracle edition is installed or download corresponding edition OLEDB Provider from Oracle office website
- MySQL and Access have no requirements.

4. IIS components need be installed firstly before installation of Managing Server.

- IIS will be installed by default in Windows 2000 ServerWindows 2003 Server Web Edition, but not Windows 2000 Pro, XP and Win2003 Standard and Enterprise Edition,so you need add IIS components. Please see IIS INSTALLATION

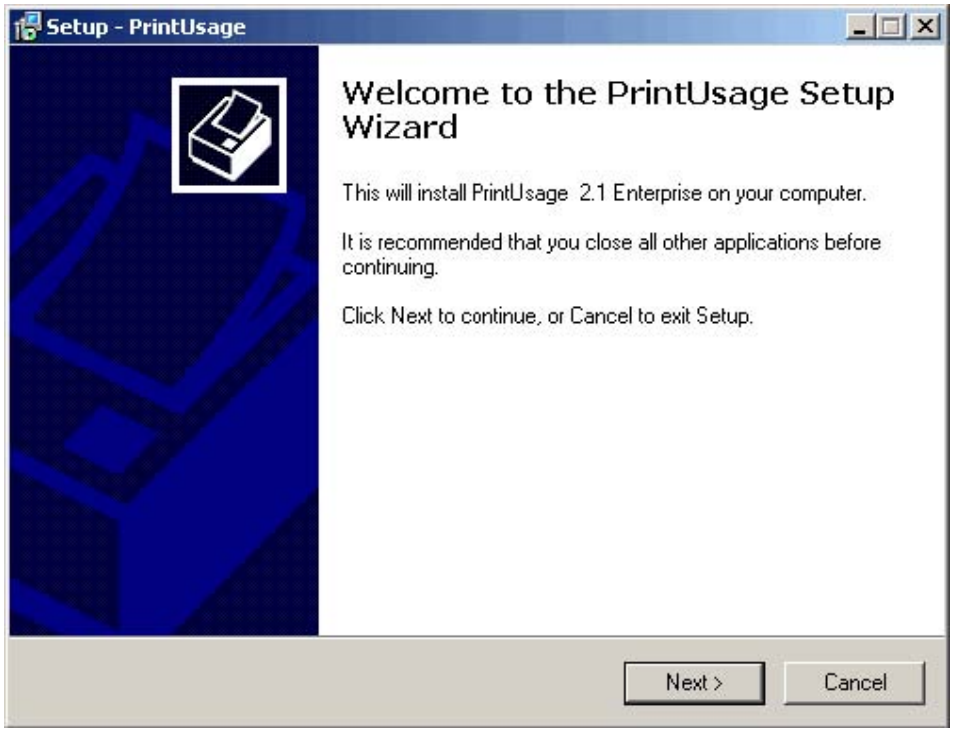
5. Please don't plug immediately, if you have USB Software Dog

- USB Software Dog needs driver needs to be installed. Windows cannot find the correct driver and mark it as unknown device, if you plug in the USB software dog before installing PrintUsage. In the Setup Wizard, there is a special step showing the installation of USB software dog.

Next step: Welcome Page

Welcome Page

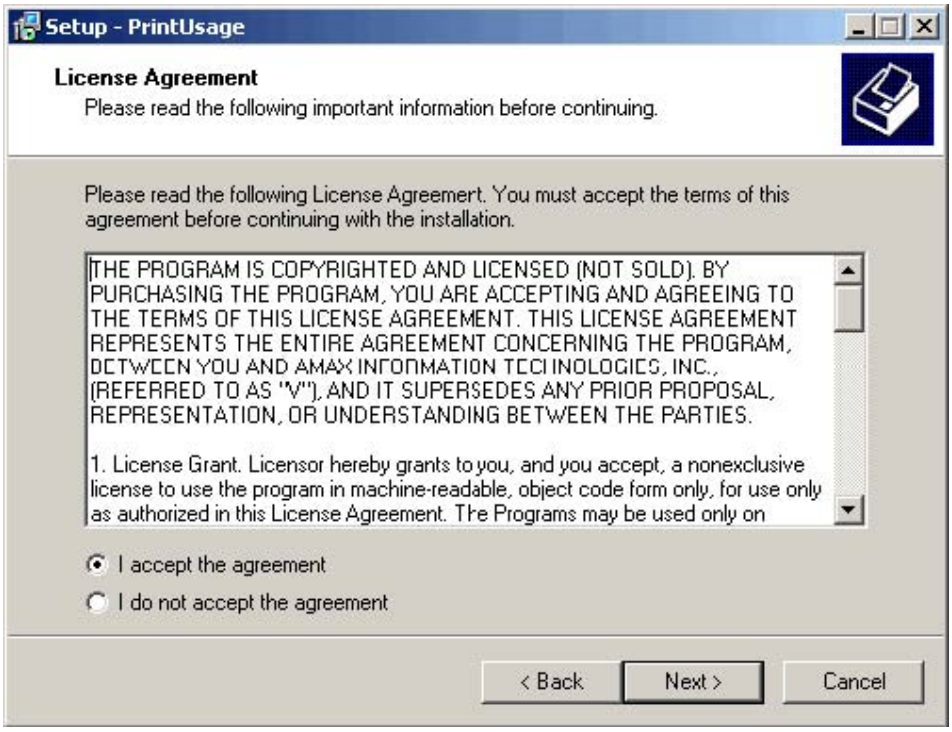
Administrator Right of the computer is required for the installation. Please take our strong advice closing all other running programs before start. After double click the Setup.exe, you will see the following Welcome Page.


Setup - PrintUsage
Welcome to the PrintUsage Setup Wizard
This will install PrintUsage 2.1 Enterprise on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Next step: User Agreement

User Agreement

Please read carefully on the License Agreement, select accept and click Next to continue.


Setup - PrintUsage
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
THE PROGRAM IS COPYRIGHTED AND LICENSED (NOT SOLD). BY PURCHASING THE PROGRAM, YOU ARE ACCEPTING AND AGREEING TO THE TERMS OF THIS LICENSE AGREEMENT. THIS LICENSE AGREEMENT REPRESENTS THE ENTIRE AGREEMENT CONCERNING THE PROGRAM, BETWEEN YOU AND AMAX INFORMATION TECHNOLOGIES, INC., (REFERRED TO AS "V"), AND IT SUPERSEDES ANY PRIOR PROPOSAL, REPRESENTATION, OR UNDERSTANDING BETWEEN THE PARTIES.
1. License Grant. Licensor hereby grants to you, and you accept, a nonexclusive license to use the program in machine-readable, object code form only, for use only as authorized in this License Agreement. The Programs may be used only on
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel

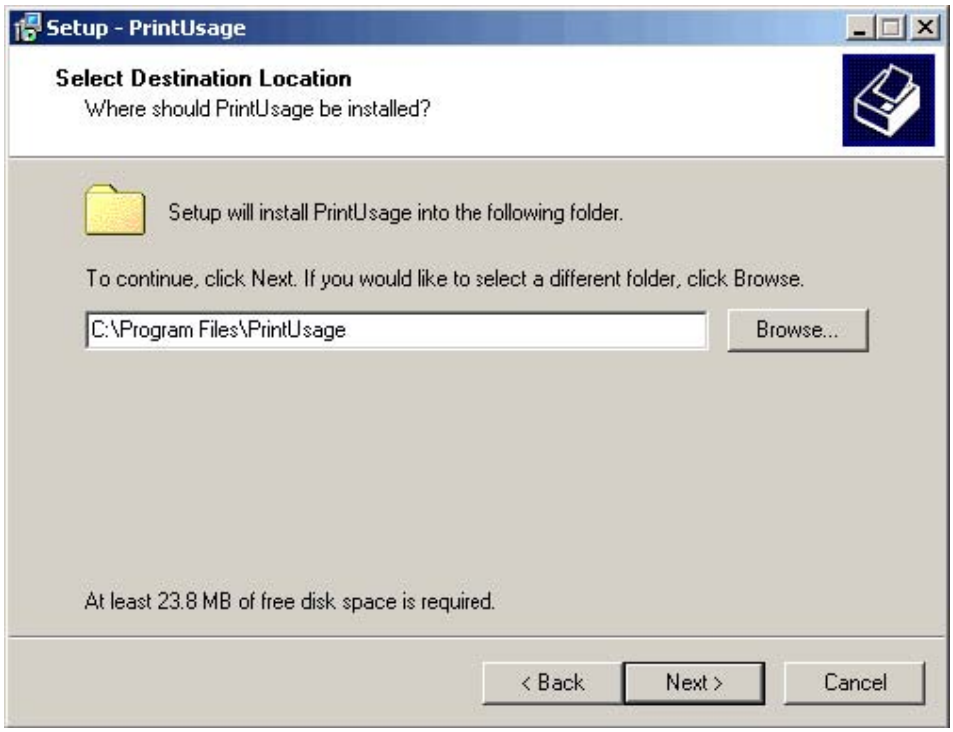
Next step: Choose Target Folder

Choose Target Folder

Default installation path is C:\Program Files\PrintUsage

Data file will be installed to subdirectory of data of installation index.

Printed content files of Enterprise edition will be saved to the subdirectory of Content of installation index. You should install the PrintUsage to the largest partition of the hard disk, because the space of the two indexes is often crammed soon.


Setup - PrintUsage
Select Destination Location
Where should PrintUsage be installed?
Setup will install PrintUsage into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\PrintUsage
Browse...
At least 23.8 MB of free disk space is required.
< Back
Next >
Cancel

Space calculating mode

Printed content files (only enterprise edition) save printed content as Tiff picture format in the Print Server. The following formula shows how much space we required:

Demanded hard disk space=amounts/month x demanded months to keep printed content x bytes of every kept file.

PrintUsage adopts Tiff G4 format to keep, which has high compression ratio, precision ranges from 75dpi to 600dpi and file bytes of every printed A4 paper ranges from 10k to 200k on average according to printed contend and reserved precision.

Default distinguishing rate is 300dpi, 30k/page can be taken, when you adopt estimating method.

We suppose that a printing server has 100,000 pages to be printed every month and their content need reserving for three month. Therefore,

Demanded hard disk space =100k pages/month X three month X 30k =9G

If user needs to keep the files for reprint, the value will be 200k/page. If User's reprinted files, the size of the driver of the printer and user's task require space. We need larger space for printing pictures, but it needs smaller space for text. User's reprinted files range from 20k to 1M, usually several hundred K. The foregoing formula also needs demanded space.

Conclusion: Basically, there is no need to consider your saving space layout, 1G saving pace is enough, if you use professional edition.

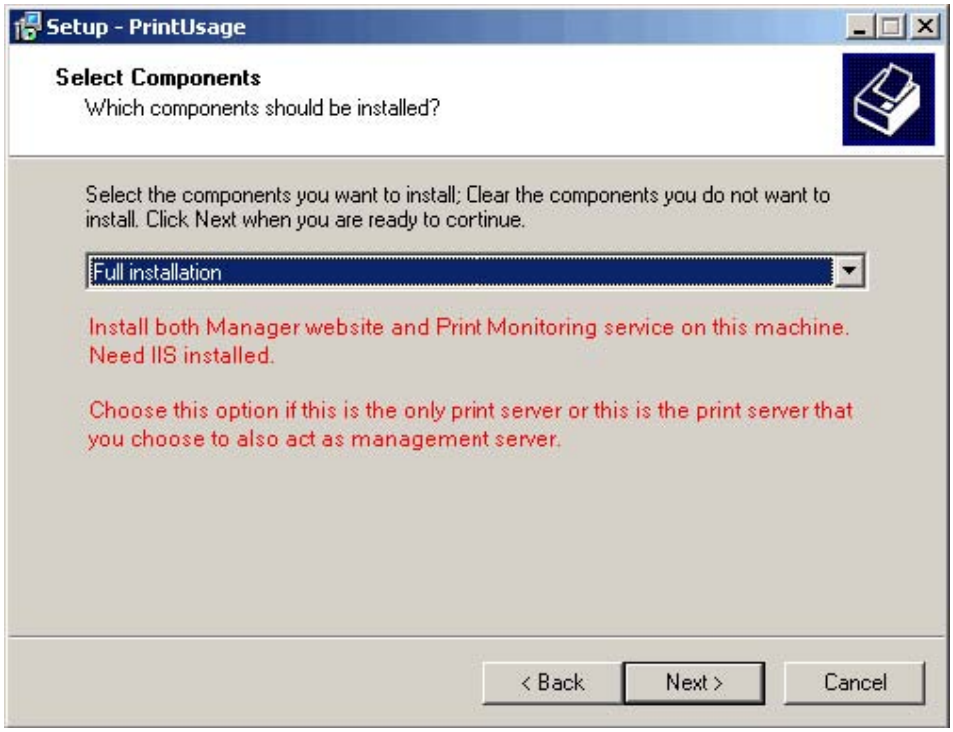
1G saving space of database and web server is enough, as for user of enterprise edition. The largest demanded space is for the printing server, you can reserve the space in advance after estimation according to the foregoing method.

next step:choose setup mode

Choose Setup Mode

There are three setup modes: Full Installation, Management Server, and Print server

Full Installation


Setup - PrintUsage
Select Components
Which components should be installed?
Select the components you want to install; Clear the components you do not want to install. Click Next when you are ready to continue.
Full installation
Install both Manager website and Print Monitoring service on this machine. Need IIS installed.
Choose this option if this is the only print server or this is the print server that you choose to also act as management server.
< Back
Next >
Cancel

Full Installation refers to install Managing Server and Print Server to the same computer.

You should choose this method under the following two circumstances:

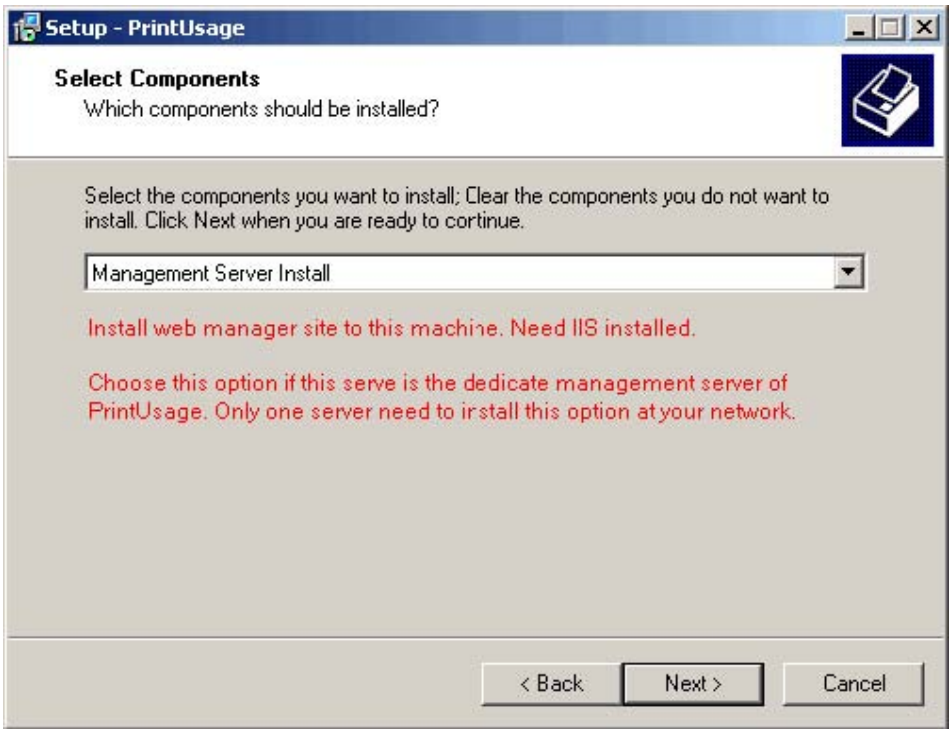
- You need choose Full Installation, if you have only one Print Server and want it to be a Management Server, or just want to test it.
- This computer is one of Print Servers; you want the server to be Management server at the same time.

Setup Precondition:

- This computer is a printing server, connecting with traditional printer or network printer offering shared printing service.
- This computer needs install IIS (Web Service), if not, Please install it from control panel--add/remove program--add/remove windows components.
- If choosing MySQL database, you need to install MyODBC 3.51 edition or above.
- If choosing Oracle database, you need to install Oracle client server of corresponding edition or OLEDB offered program.

- Notice: if you have the foregoing two problems, that is to say, you can not choose Access database, if you have other printing server to be installed, you can choose other three databases. If the first one, you can choose one of the four databases at random.
- Access database has its setup program along with its installation package, other MSSQL,MSDE,MySQL and Oracle need the completed installation and be online. Database server may use the local computer or other computer. Installing program only creates database structure required by PrintUsage and does not contain database managing system itself.
- If you use XP or Win2003 operating system or installed firewall, please open at least TCP port 80,8100,and 8200, or disable the firewall

Managing Server Setup


Setup - PrintUsage
Select Components
Which components should be installed?
Select the components you want to install; Clear the components you do not want to install. Click Next when you are ready to cortinue.
Management Server Install
Install web manager site to this machine. Need IIS installed.
Choose this option if this serve is the dedicate management server of PrintUsage. Only one server need to irstall this option at your network.
< Back
Next >
Cancel

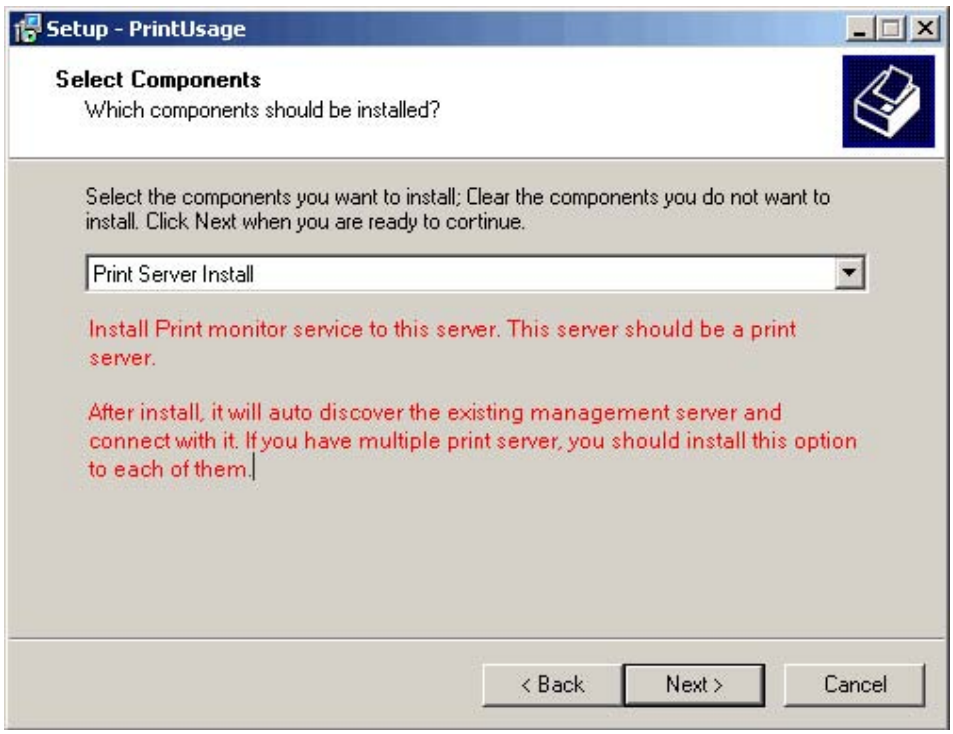
Management Server Setup makes management server to adopt single compute installation method, host computer will not be used as Print server. You just need one program for Management Server installation. Installation Wizard will guide you to create database structure, user group, initializing settings and other settings. You need at least one Printing Server for normal operation after the completion of Management Server installation.

Setup Precondition:

- Host computer needs have IIS installed (Web Service). If not, Please install it from Control Panel--> Add/Remove Program--> Add/Remove Windows Components.
- If choosing MySQL database, you need to install MyODBC 3.51 edition or above.
- If choosing Oracle database, you need install Oracle client server of corresponding edition or OLEDB offered program

- Notice: Management Server Setup can choose one of MSSQL,MSDE,MySDE and Oracle rather than Access database. Database server may use host computer or other computer. Installing program only creates database structure required by PrintUsage and does not contain Database Management System itself.
- If you use XP or Win2003 operating system or installed firewall, please open at least TCP port 80, and 8200, or disable the firewall

Print Server Setup


Setup - PrintUsage
Select Components
Which components should be installed?
Select the components you want to install; Clear the components you do not want to install. Click Next when you are ready to cortinue.
Print Server Install
Install Print monitor service to this server. This server should be a print server.
After install, it will auto discover the existing management server and connect with it. If you have multiple print server, you should install this option to each of them.
< Back
Next >
Cancel

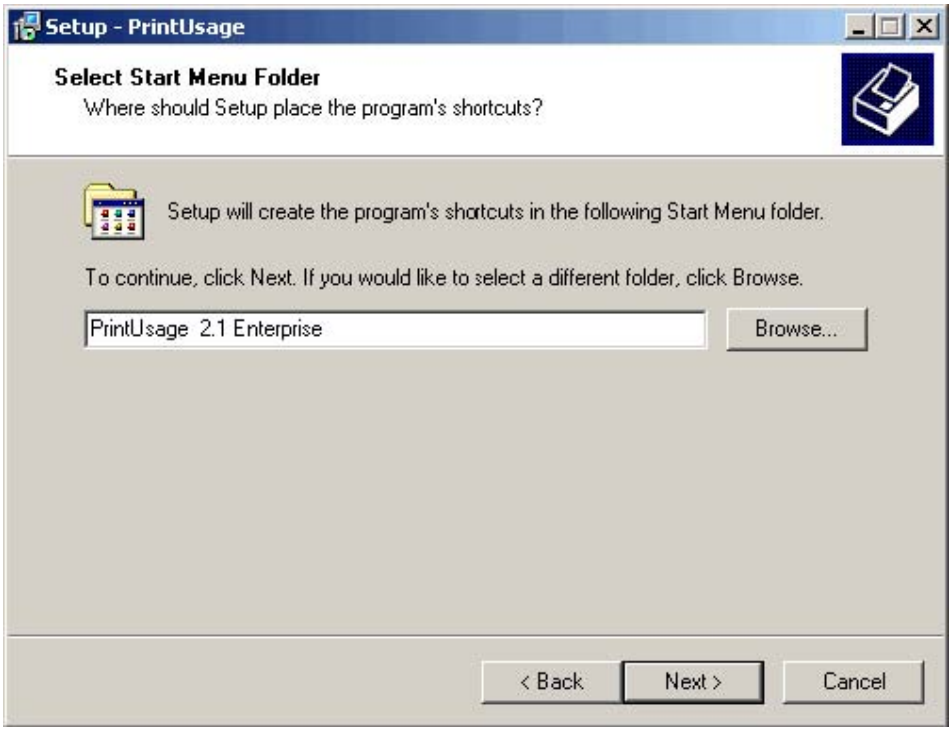
Print Server Setup installs Printing and Monitoring Server separately to the computer and accept the uniform management of managing server.

Setup Precondition:

- Managing server to completed installation and setting is in the running state.
- Host computer is a printing server, connecting with traditional printer or network printer offering shared printing services.
- If choosing MySQL database, you need to install MyODBC 3.51 edition or above.
- If choosing Oracle database, you need install Oracle client server of corresponding edition or OLEDB offered program.

Next step: Choose Start Menu folder

Choose Start Menu folder

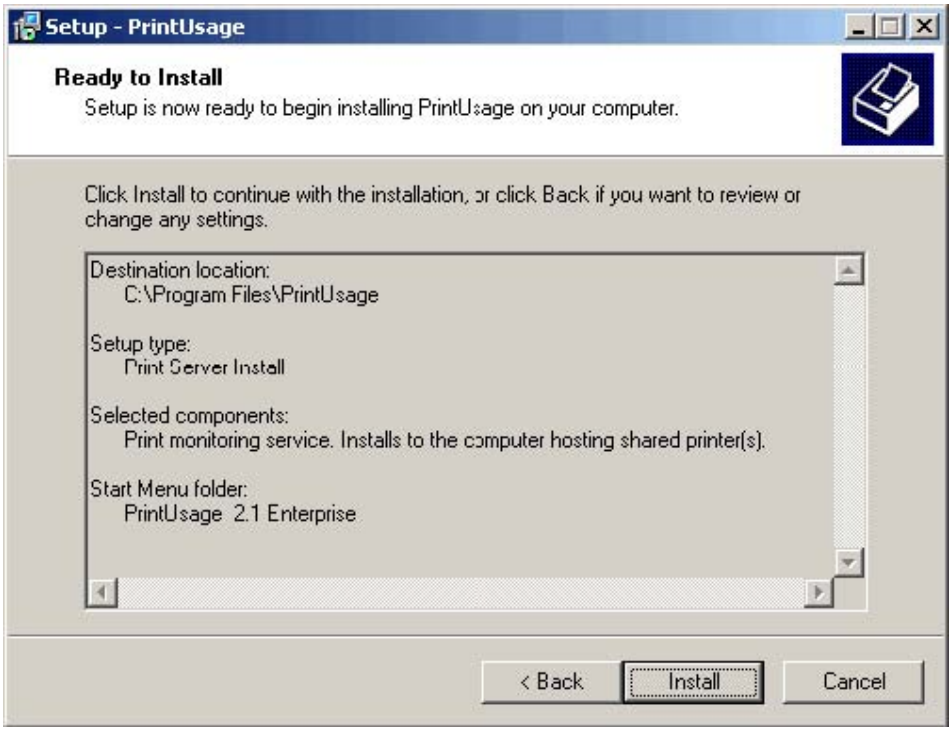

Setup - PrintUsage
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
PrintUsage 2.1 Enterprise
Browse...
< Back
Next >
Cancel

The PrintUsage folder will be created in the Start Menu folder as default.

If you want to put it elsewhere, or change the name of the folder, click Browse for new location.

Next step: Preparing Installation

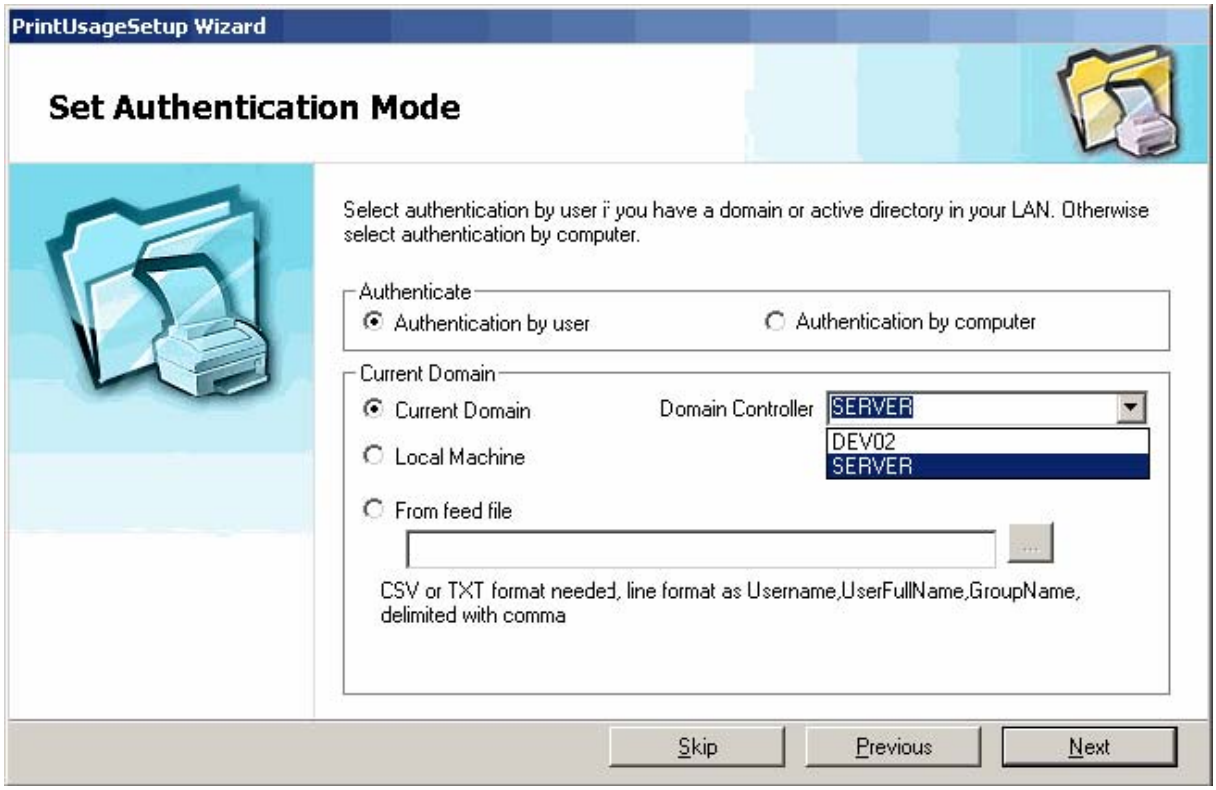
Setup Preparation


Setup - PrintUsage
Ready to Install
Setup is now ready to begin installing PrintUsage on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\PrintUsage
Setup type:
Print Server Install
Selected components:
Print monitoring service. Installs to the computer hosting shared printer(s).
Start Menu folder:
PrintUsage 2.1 Enterprise
< Back
Install
Cancel

After double clicked the Setup.exe, it will start the installation. If the PrintUsage has been installed before, it will remove the original copy automatically.

Next step: Choose Setup Authorization Mode

Choose Authentication Mode



Choosing of Authentication Mode

- Select "User Authentication", if there is a domain or active index. You can also choose Domain Controller if there are more than one DC. It reduces response time if the Domain is Global, Asia, or Europe as distributed domains. This feature is not available if it is below V2.1 edition.
- If "User Authentication" is selected, the default User Group and User Name will be added to the active indexes.
- "Computer Authentication" should be selected if it is in a Workgroup.

For computers working as a Workgroup, users still can logon by their names. However, the Print Server is unable to distinguish local logging name. It's hard to distinguish who printed. Only computer name can be distinguished under this circumstance. As a result, PrintUsage offers Computer Authentication to monitor users who are connected as Workgroup.

- If "Computer Authentication" is selected, installation program will detect all of network connections, treat Workgroups as user groups and import those computer names as user names into the system. Notice: the running computer only can be imported. As any other computers, you should add them manually from the Managing website after finishing the installation.
- If it is imported from file, file format needs one line for every user name, permitting three columns: user name, user full name and user group. We have to use "," as separator between columns. Example is the following:

John, John Smith, Human Resource Dept.

William, William Perry, Sale Dept.

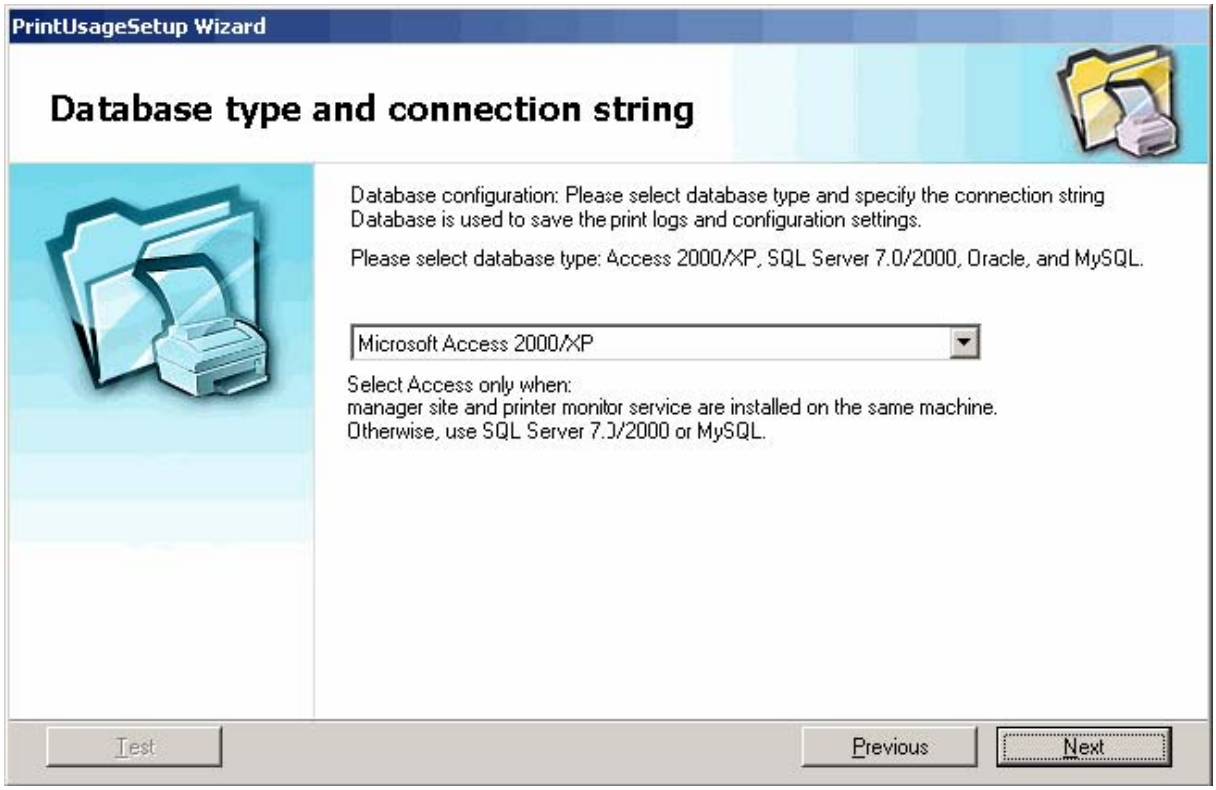
George, George Bush, Sale Dept.

After TXT or CSV file has been imported, system will create two user groups: Human Resource Department and Sale Department, and three users: John to Human Resource Department, William and George to Sale Department. User names can be exported from Sale Department or Human Resource Department to PrintUsage.

Next Step:Choose Input User Group

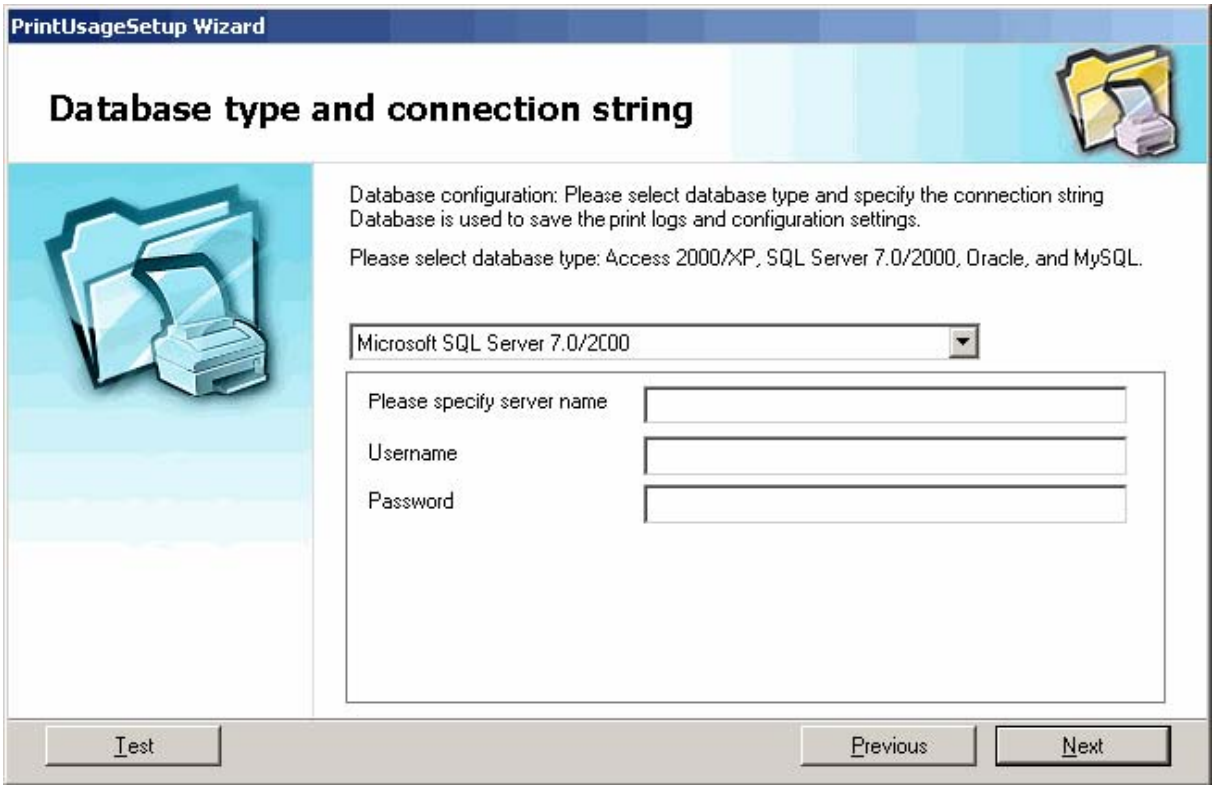
Database Mode and Connecting Settings

Access Installation


PrintUsageSetup Wizard
Database type and connection string
Database configuration: Please select database type and specify the connection string
Database is used to save the print logs and configuration settings.
Please select database type: Access 2000/XP, SQL Server 7.0/2000, Oracle, and MySQL.
Microsoft Access 2000/XP
Select Access only when:
manager site and printer monitor service are installed on the same machine.
Otherwise, use SQL Server 7.0/2000 or MySQL.
Test
Previous
Next

Please choose Microsoft Access 2000/XP. The installation program will create a database named PrintUsage, and Data subdirectory indexes.

MSSQL/MSDE Installation


PrintUsageSetup Wizard
Database type and connection string
Database configuration: Please select database type and specify the connection string
Database is used to save the print logs and configuration settings.
Please select database type: Access 2000/XP, SQL Server 7.0/2000, Oracle, and MySQL.
Microsoft SQL Server 7.0/2000
Please specify server name
Username
Password
Test
Previous
Next

If you choose Microsoft SQL Server 7.0/2000, the Server Name is the computer name or IP address, which has installed MSSQL or MSDE. User name and password is the one you have right to logon to that computer. Password is case sensitive.

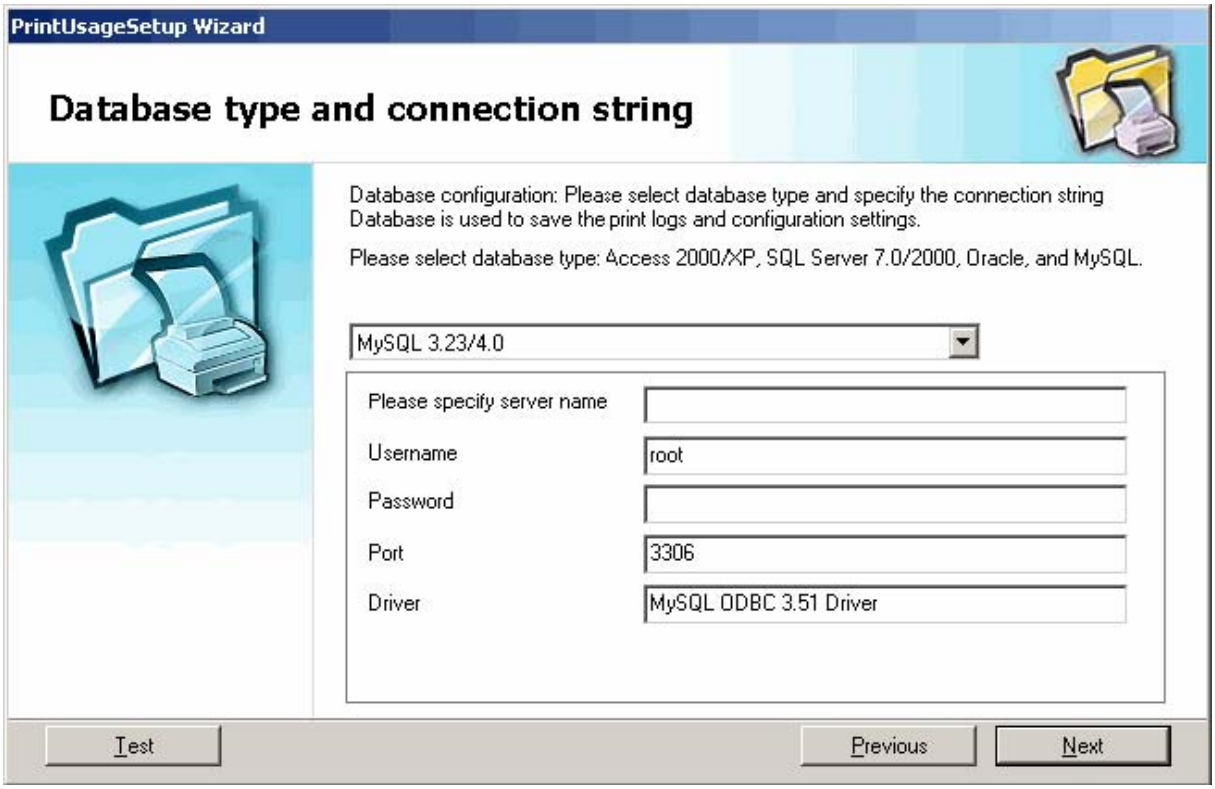
After finished, you can click "test" button. You may click "next step", if the test is passed. If not, you should confirm your input and normal operation of MSSQL server. You should ensure that computer name can be parsed to the target computer if you use computer name.

If your input was correct, but you still can not pass the test, it's possibly caused by MSSWL authentication mode. Default authentication mode of SQL Server is 'Only windows integrated authentication" , but PrintUsage requires to adopt SQL Server authentication mode. You can take the following settings: SQL Server Enterprise Managing Server, choose target server, right click attribute, safe mode page, change authentication into SQL Server and Windows, just as the following picture, and restart.

MSDE modification is relative complicated because of no managing page. If the default installation has problem, you should input setting parameter during the installation as 10.13 mentioned.

Installation program will set up a PrintUsage database, which does not affect other existed databases and their applications.

MySQL Setup



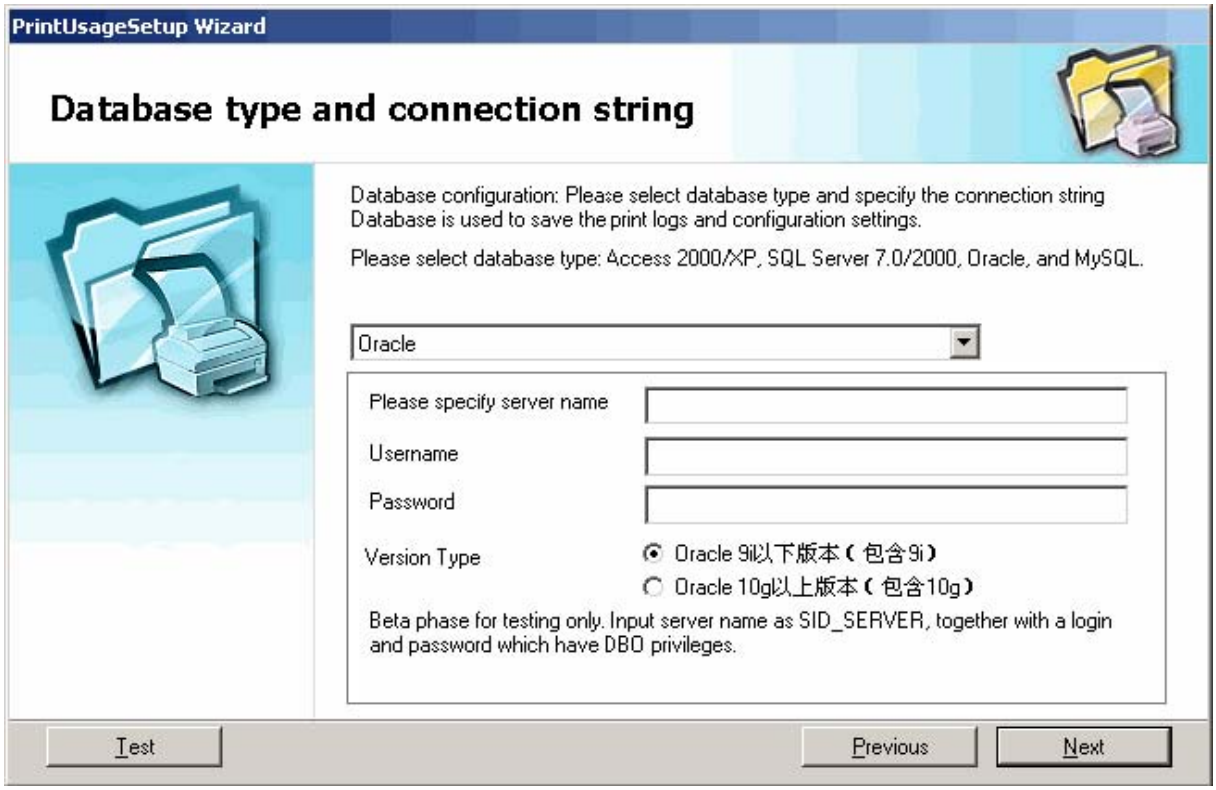
Server name is the same as computer or IP address which installed MYSQL, and user name in possession of administrator jurisdiction generally uses "root" to logon. Password is case sensitive. We recommend modifying the password, because password of MYSQL root is empty by default. Generally, there is no need to modify port number and drivers unless you know exactly what you do.

After finished, you can click "test" button. You may click "next step", if the test is passed. If not, you should check your input and the MySQL server. You should ensure that computer name can be correctly parsed to the target computer if you use computer name.

Notice: It is not too late to install MyODBC when test does not pass, if MyODBC has not been installed.

Installation program will create a PrintUsage database in the MySQL, which will not affect other existed databases and their applications

Oracle Installation


PrintUsageSetup Wizard
Database type and connection string
Database configuration: Please select database type and specify the connection string
Database is used to save the print logs and configuration settings.
Please select database type: Access 2000/XP, SQL Server 7.0/2000, Oracle, and MySQL.
Oracle
Please specify server name
Username
Password
Version Type
Oracle 9i以下版本（包含9i）
Oracle 10g以上版本（包含10g）
Beta phase for testing only. Input server name as SID_SERVER, together with a login and password which have DBO privileges.
Test
Previous
Next

The software is currently applicable to 8i,9i and 10g of Oracle edition.

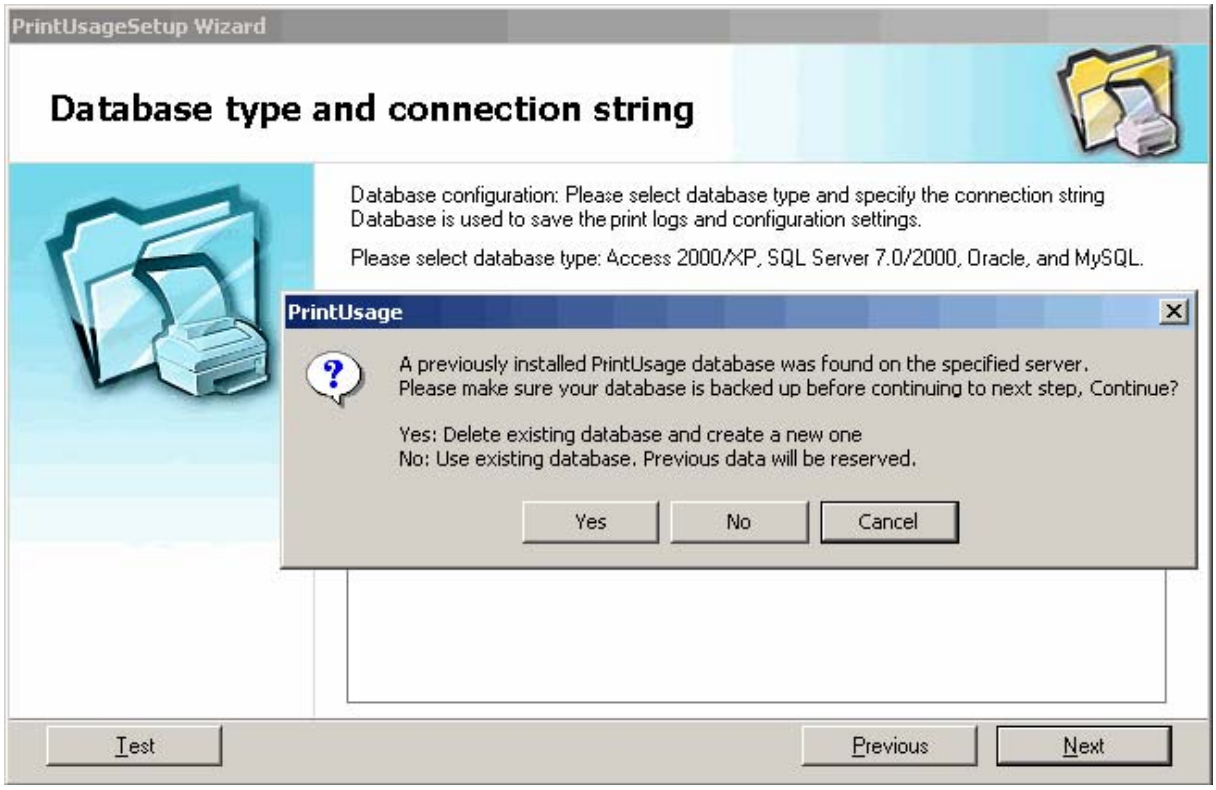
Rules of server name: server name SID; user name needs the name in possession of DBA privilege, case sensitive for password

After finished, you can click "test" button. You may click "next step", if the test is passed. If not, you should check your input and the Oracle server. You should ensure that computer name can be parsed to the target computer if you use computer name.

Installation program will create a PrintUsage user pointed by Oracle, which will not affect other existed databases and their applications.

Upgrading Installation requirement:

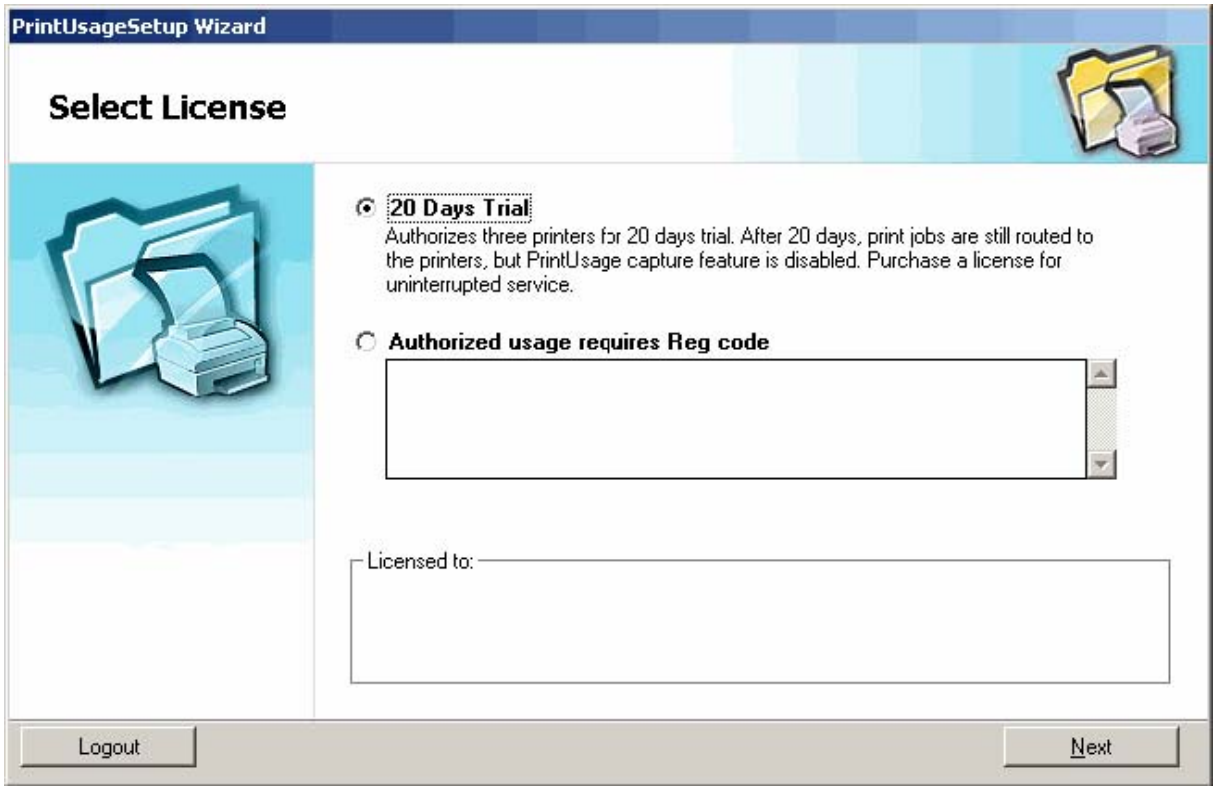
No matter what kind of databases you use, you will be asked if you want to overwrite the existed database or not, if installation program detects existed original database. If you choose "Yes", installation program will drop the original database and run Full Installation. If "No" is selected, system will keep the original database. Installation program will automatically upgrade to the latest edition without losing any data.


PrintUsageSetup Wizard
Database type and connection string
Database configuration: Please select database type and specify the connection string
Database is used to save the print logs and configuration settings.
Please select database type: Access 2000/XP, SQL Server 7.0/2000, Oracle, and MySQL.
PrintUsage
A previously installed PrintUsage database was found on the specified server.
Please make sure your database is backed up before continuing to next step, Continue?
Yes: Delete existing database and create a new one
No: Use existing database. Previous data will be reserved.
Yes
No
Cancel
Test
Previous
Next

After "No" button is selected, the installation wizard will start.

Choose Authentication Mode

Choose Setup Authorization Mode


PrintUsageSetup Wizard
Select License
20 Days Trial
Authorizes three printers for 20 days trial. After 20 days, print jobs are still routed to the printers, but PrintUsage capture feature is disabled. Purchase a license for uninterrupted service.
Authorized usage requires Reg code
Licensed to:
Logout
Next

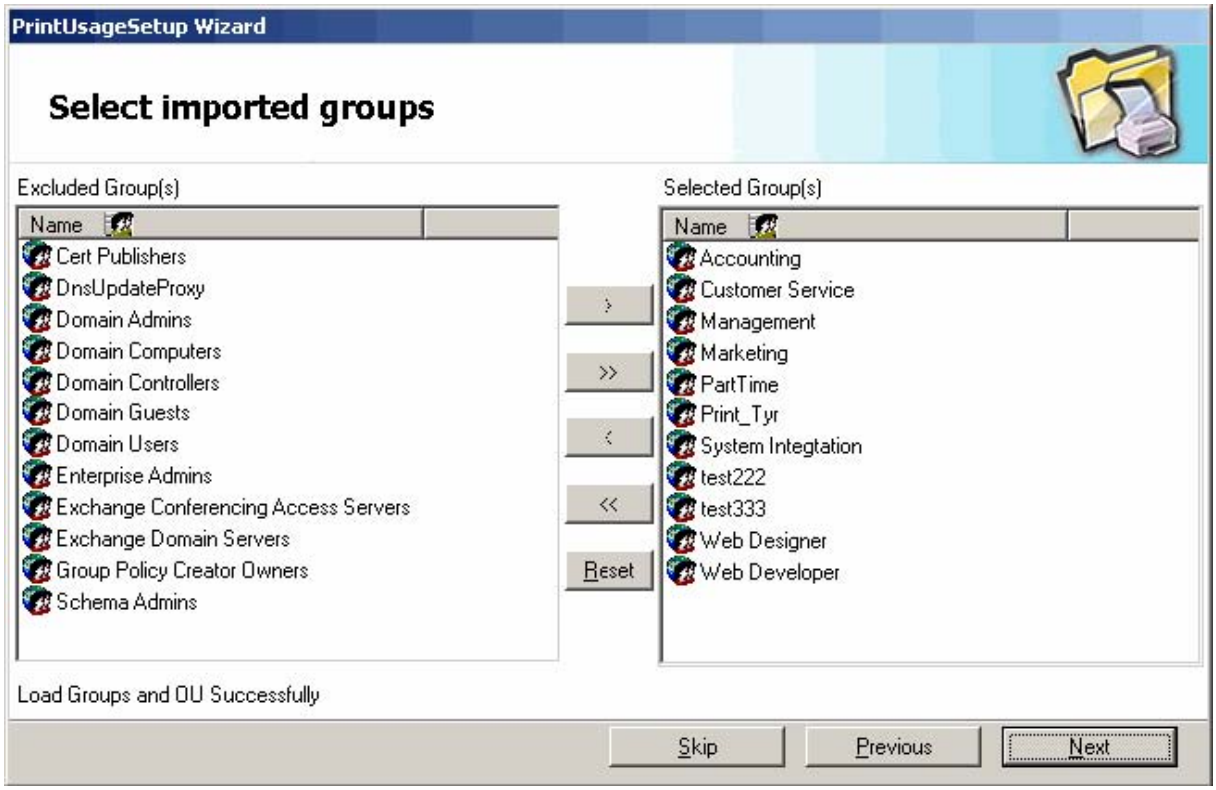
If you are going to install the trial usage, please choose "Limited Trial Usage Authorization"

If you obtained the softdog, please choose "Normal Authorization".

If you have serial no. but no softdog, please choose "Limited Trial Usage Authorization" and input your serial no. into Settings-- > Registered Information

Next step: Database Mode and Connection Settings

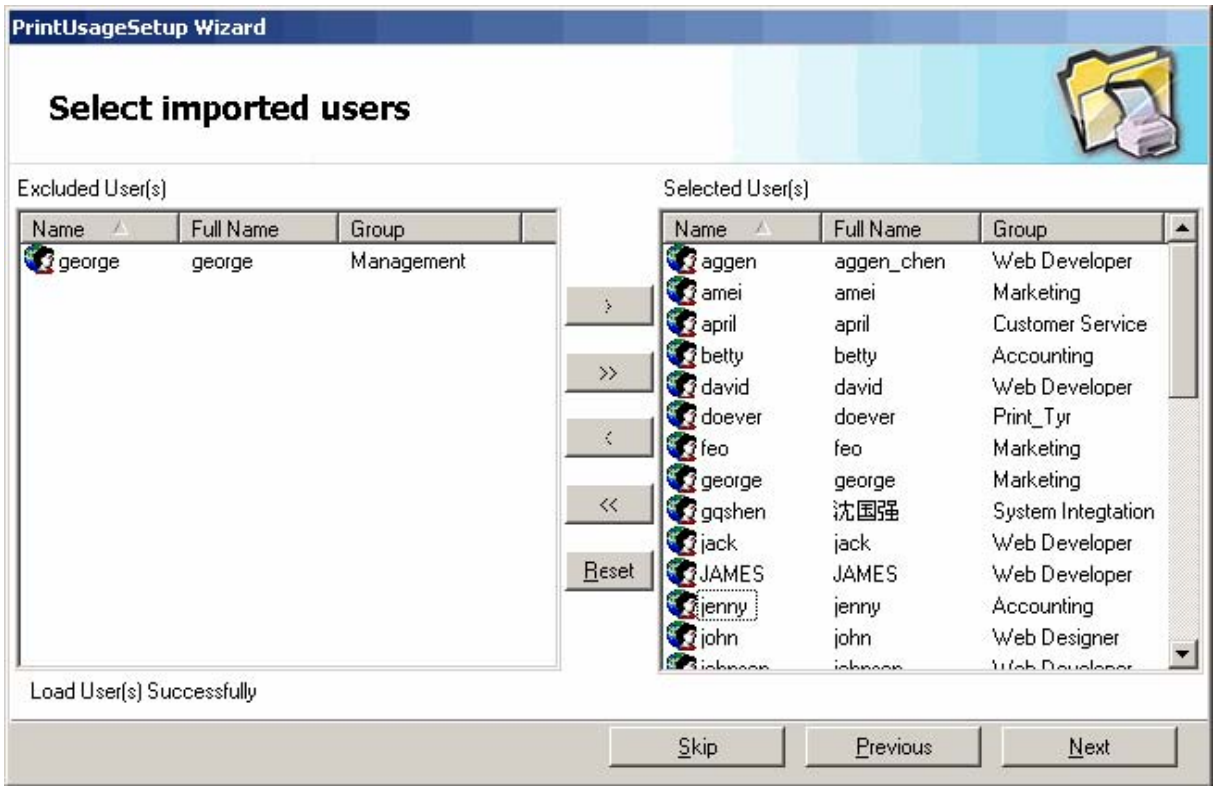
Choose Imported User Group



Installation program will seek for all user groups and organization units from the active indexes. It will take a while, which depends on the active index size, and the network traffic. Inset Group of domain is excluded by default.

Next Step: Choose Imported User

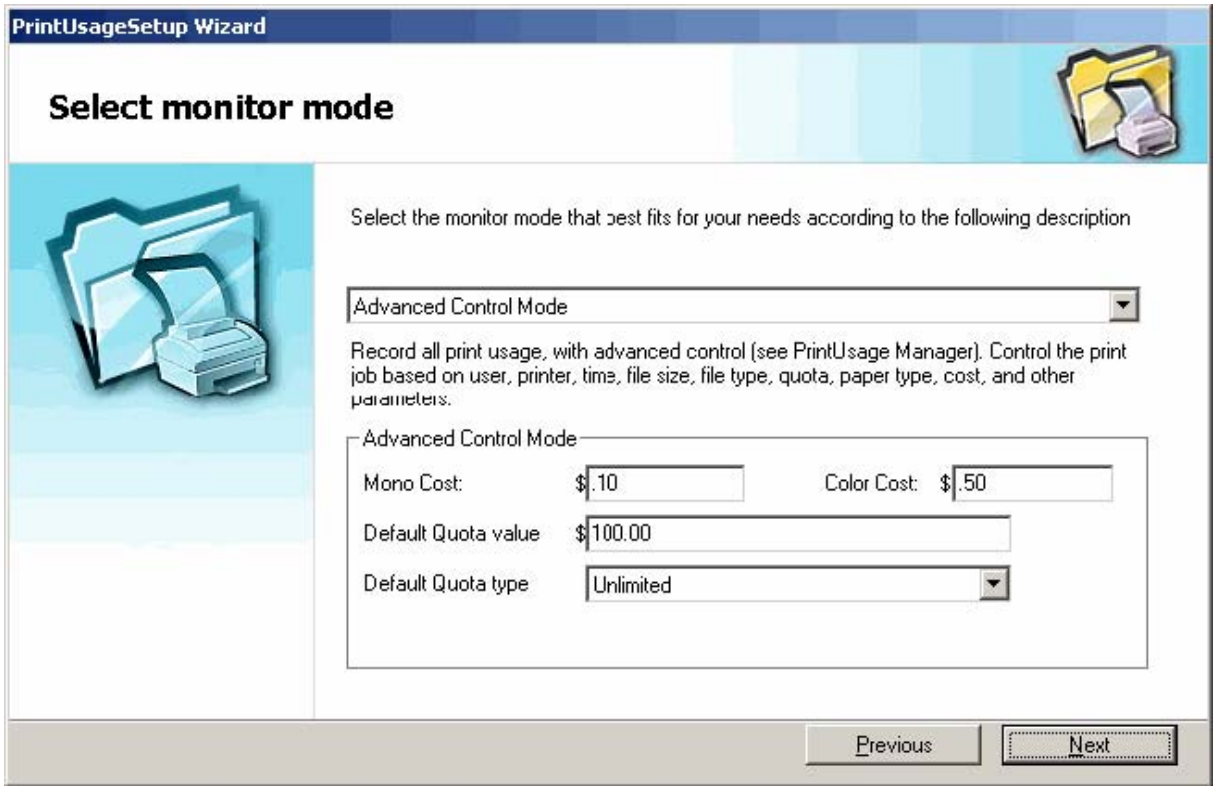
Choose Imported User



System will list all of user names from selected groups. Installation system will automatically select relationship that one user name corresponding to one of groups and add it into list box on the right, and other relationship will be excluded in list box on the left, if there is one user name corresponding to several user groups. If you do not belong to the real group, you can adjust it from homepage in order to distribute every user to respective group and then click "Next Step" to be continued.

Next Step: Set Monitoring Mode

Set Monitoring Mode

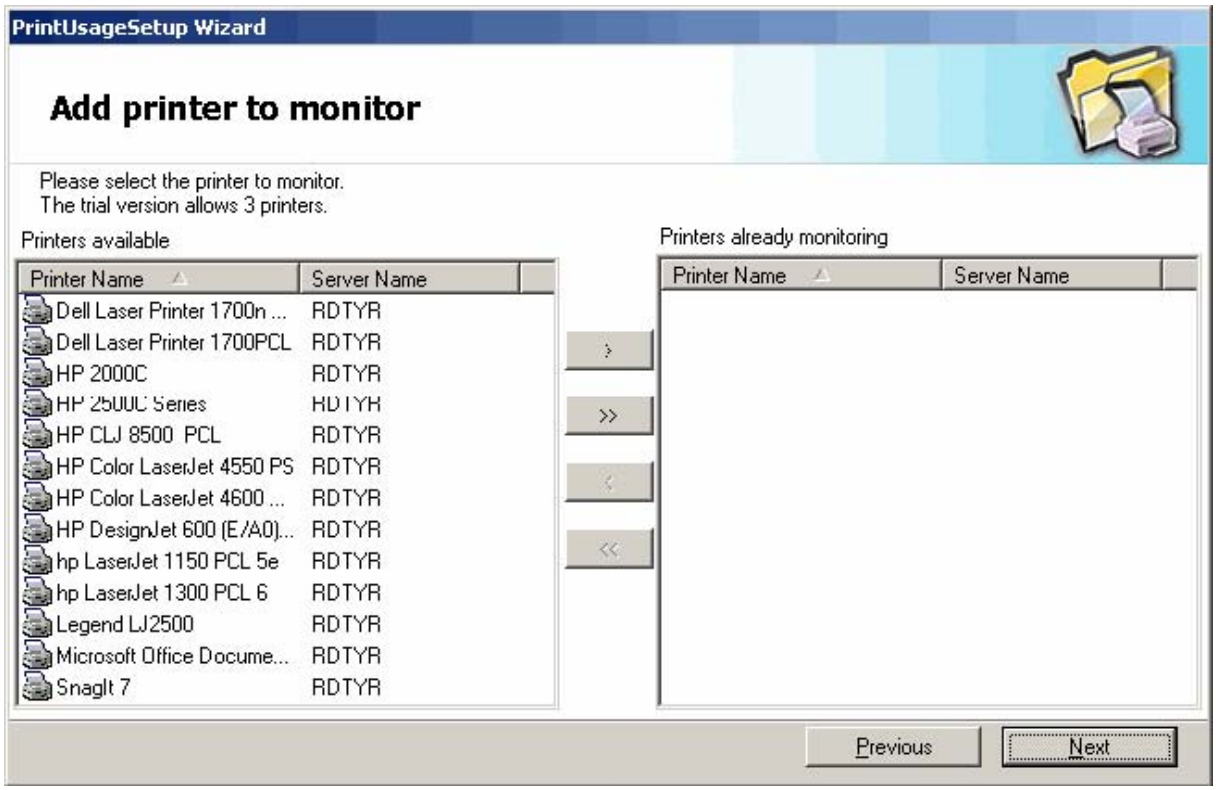

PrintUsageSetup Wizard
Select monitor mode
Select the monitor mode that best fits for your needs according to the following description
Advanced Control Mode
Record all print usage, with advanced control (see PrintUsage Manager). Control the print job based on user, printer, time, file size, file type, quota, paper type, cost, and other parameters.
Advanced Control Mode
Mono Cost: $.10
Color Cost: $.50
Default Quota value $100.00
Default Quota type
Unlimited
Previous
Next

Different monitoring mode offer users the flexibility of control.

- Uncontrolled mode - All users are allowed to print, which will be charged by flat rate per page.
- Simple control mode - The usage is controlled by quota. All the printing requests will be denied when the quota is reached.
- Advanced Control mode - All features are enabled by default. It offers comprehensive control by charging schemes, which are based on user, printer, time, file size, file type, paper size, quota, and other parameters. It also records user printing log.

Next Step: Add Monitored Printer

Add Monitored Printer

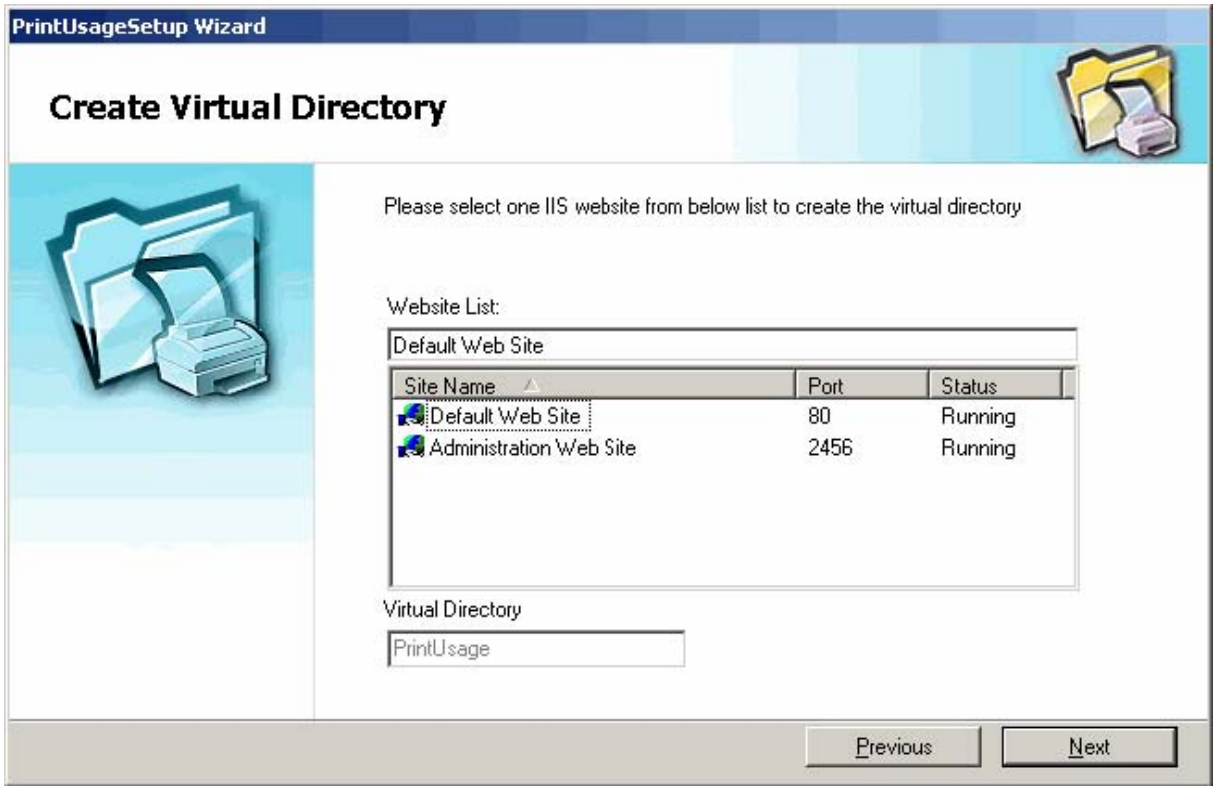


This step will appear when you choose complete installation. The number of printers is limited by authorization. If it's trial edition, it only allows 3 printers. The number of printers you can monitor is related to the type of License you purchased. The monitor will start immediately after the printer was added.

If there is no printer in user printing monitoring server, this step can be skipped.

Next Step: Create Virtual Index

Create Virtual Index



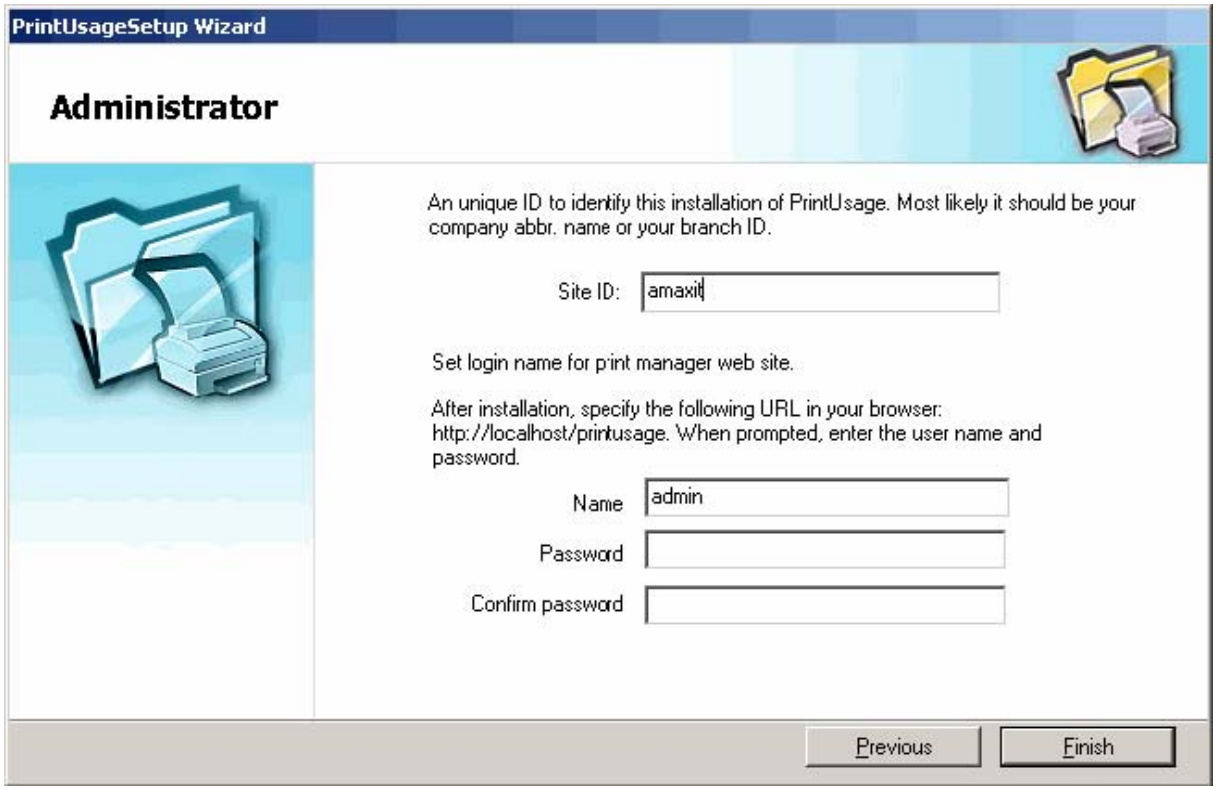
If you need to manage multiple websites, you may define the virtual index location of those websites.

Notice:

This feature is only available on V2.1 edition or above.

Next Step: Administrator Settings

Administrator Settings


PrintUsageSetup Wizard
Administrator
An unique ID to identify this installation of PrintUsage. Most likely it should be your company abbr. name or your branch ID.
Site ID:
amaxit
Set login name for print manager web site.
After installation, specify the following URL in your browser: http://localhost/printusage. When prompted, enter the user name and password.
Name
admin
Password
Confirm password
Previous
Finish

You can input the Site ID, and assign the administrator name / password. The default user name is "admin" and the password is blank.

Notice:

If you have multi-administrators, you can add them after the first administrator logged on. No "website ID", and multi-administrator below V2.1 edition.

Restart Wizard

If you need to restart the Wizard:

1. Please modify the installed index (/bin/PrintUsage.ini), from WizardDone=Y to WizardDone=N, Then save and exit.

2. Start the Wizard again by running the (/bin/Wizard.exe).

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2. Make reversed engineering, programming or disassembly
3. Install one license on several computers
4. Publish registration code or impart others

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5. New version notification